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RICHARD J. ZANETTI, EDITOR-IN-CHIEF ALAN R. MORRIS, VP-PUBLISHER



1994 INDEX, Volume 101, Jan.-Dec. 1994

At	osorbents
	as cleaning comes out of the bag. Ondrey, Gerald & Moore, Stephen (N)July, p. 28
-(Correction Sept, p. 8
	osorption
Ab	sorption-heat transformer curbs steam re-
	quirements (C)July, p. 19
Al	kaline solution destroys chlorinated air-pollu- tants (C)Oct, p. 23
Ef	fective design for absorption and stripping (Feature report, figures). McNulty, Kenneth J. (EP)Nov, p. 92
Ho	ot-gas sweetening improves integrated gasifica- tion combined-cycle (IGCC) efficiency (C)
	Feb, p. 19
r	ocess recovers HCl and sulfur dioxide from exhaust gas without creating effluent (C)
	Sept, p. 25
So	lvent-based absorption eliminates costly refrig- eration in ethylene plants (C)Aug, p. 23
A	ccidents
Bo	orosilicate ductwork prevents fire propagation (PN)Oct, p. 179
Н	pechst blast halts R-134a production in Frank-
	furt and Brazil. Ondrey, Gerald (N)
*	Apr, p. 48
	etterJune, p. 8
	dditives in plastic bags helps cut incinerator
A	
m	emissions (C)
	rahNov, p. 67
	dsorbents
	revent spontaneous combustion during vapor control (PN)
	uick and easy way to trap CFCs (C) Mar, p. 19 dsorption
A	dsorption holds its own. Basta, Nicholas, et al. (N)
C	atalytic activity: An added new role for activated carbon (C)Sept, p. 21
G	litsch targets technology-driven growth (N)
M	Jan, p. 46 (icrowaves destroy NOx on coal char (C)
P	roven process of carbon adsorption (Feature Report, Part 3 of 3). Sorrento, Louis (EP)
S	Drption-based gas delivery system prevents acci-
	dental release (C)Feb, p. 17

-	
1	Air Pollution
ı	Extend the life of pollution-control catalysts (fig-
1	ures). Bar Ilan, Armiram, et al
١	Sept EE Supp, p. 22
١	Kawasaki residents score, for now, as an 11-year
١	suit is settled. Moore, Stephen (N).Mar, p. 50
ı	Air Pollution Control
1	Additive in plastic bags helps cut incinerator
ı	emissions (C)
ı	Air Pollution Compliance focuses on paperwork.
ı	Shelley, Suzanne (F)
1	Air-pollution control: Estimate the cost of
1	scaleup. Remer, Donald S., et al
1	
1	Alkaline solution destroys chlorinated air-pollu-
ı	Alkaline solution destroys chlorinated air-pollu-
ı	tants (C)Oct, p. 23
1	Coal slurries: an environmental bonus? Basta,
1	Nicholas, et al. (N)
1	- LetterJuly, p. 10
ı	Combat NOx with better burner design. Straitz
ı	III, John F. & Mendoza, Vincente A
1	Nov EE Supp, p. 4
1	EPA rule aims to cut emissions at local incinera-
١	tors (C)Nov, p. 29
١	Evaporative cooling is key to enhanced recovery
1	of BTEX (C)Dec '93, p. 25
1	Filtration removes dust, NOx and acid gases from
1	fluegas (C)June, p. 17
1	Gearing up for Title V operating permits (figures,
1	tables). Klaber, Kathryn Z. & Weiss, Kenneth
1	N. (EP)June EE Supp. p. 14
1	Get a fix on plant pollutants. Kumar, Ajay
1	Nov, p. 141
1	Glassy slag from this incinerator is easy to land-
	fill (C)
1	Greenhouse-gas treaty goes into effect (C)
	Apr, p. 27
	Growing cost of cleanup, Zanetti, Richard (Ed)
	Japan finds more-efficient power generation the
	key to cutting carbon dioxide. Moore, Stephen
	(N)
	Keeping a lid on volatile liquids (figures). Giffin,
	Gary L
	Membrane systems offer a new way to recover
	volatile organic air pollutants (Feature Re-
	port, Part 3 of 3, tables, figures). Simmons,
	Vicki, et al. (EP)Sept, p. 92
	Membranes meet new environmental challenges
	(Feature Report, Part 1 of 3, tables, figures).
	Cartwright, Peter (EP)Sept, p. 84
	Microwaves destroy NOx on coal char (C)
	May, p. 29
	Model solution for tracking pollution (figures).
	Collins, W. Michael & Terhune, Keith B. (EP).
	June EE Supp, p. 32
	oune is supp, p. 32

RIS, VP-PUBLISHER	PROCESS Leavening product SHHULANTION (S. M. C.
	plifies sulfur removal (C)
New enhanced-en mains unsettl	nissions-monitoring rule re- led. Fadopé, Cece (N)
Norwegian CO ₂ for Sea (C)	inds a home under the North
	the front burner. Shelley,Nov EE Supp, p. 3
Parkinson, G	take aim at a moving target. erald, et al. (N)Jan, p. 28
	Mar, p. 10
cleanup progr	d, nct emitted (Re: Mexico's ram, CE, 10/93, pp. 30-33) (cor-
Pollution prevent	ion meets TQM (Re: Pollution
11/93, pp. 30-	einventing compliance, CE, 43) (postscript) (L)Feb, p. 8
control (PN).	eous combustion during vapor
Software moves i Gulam (N)	nto air emissions. Samdani, Dec, p. 30
	from waste paper, cuts energy x emissions (C)June, p. 25
	e in a burner raises thermal effi- May, p. 29
Sulfur production Parkinson, G	r continues to rise (figures). erald, et al. (N) June, p. 30
	Aug, p. 8
business? (fig	ns: What is the full cost to your gures, tables). Dyer, James &
Muholland, F	Kenneth (EP)Feb EE Supp, p. 4June EE Supp, p. 5
U.S. industry is p	outting a lid on toxic releases
Volatile emission	ronment (C)
	(EP)June EE Supp, p. 7
Why not? A read	er asks (L) Dec, p. 8
diesel engine	soot and NO emissions from s (C) Dec '93, p. 25
	rown in situ make dust-free yst (C)Nov, p. 21
	ontrol Equipment
	mpliance focuses on paperwork.
	anne (F) Dec, p. 91 trol: Estimate the cost of
scaleup. Rem	ner, Donald S., et al
	stion cuts NOx emissions (C)
***************************************	July, p. 21
Keep the pump -	can the motor (PN).Nov, p. 147
NUx reduction of Suzanne (Ed	n the front burner. Shelley,)Nov EE Supp, p. 3



 I_n 1902, the McGraw Publishing Co. founded a monthly journal called Electrochemical Industry. This was the first magazine launched by the fledgling firm. Renamed ELECTRO-CHEMICAL AND METALLURGICAL INDUSTRY in 1905, the book a year later absorbed the magazine IRON & STEEL. In 1910, its title became Metallurgical and Chemical Engineering. Seven years later, McGraw Publishing merged with the Hill Publishing Co., with the resulting McGraw-Hill Publishing Co. incorporating the magazine operations of both its predecessors. A few months thereafter, METALLURGICAL AND CHEMICAL ENGINEERING had its name changed again, to CHEMICAL AND METALLURGICAL ENGINEERING. This appellation remained until 1946, when the current title, CHEMICAL ENGINEERING was adopted. CHEMICAL ENGINEERING has thus had a continuous history of 92 years, and carries the distinction of being the first magazine to have been established by either of the forerunners of what is now McGraw-Hill, Inc.

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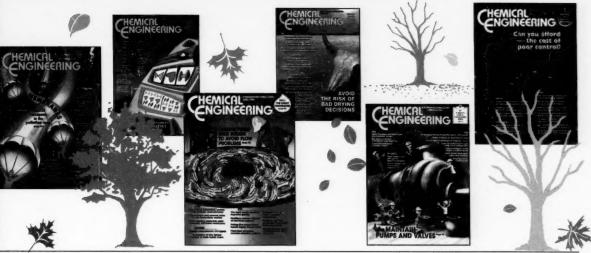


1994 INDEX, Volume 101, Jan.-Dec. 1994

At	osorbents
	as cleaning comes out of the bag. Ondrey, Gerald & Moore, Stephen (N)July, p. 28
-(Correction Sept, p. 8
	osorption
Ab	sorption-heat transformer curbs steam re-
	quirements (C)July, p. 19
Al	kaline solution destroys chlorinated air-pollu- tants (C)Oct, p. 23
Ef	fective design for absorption and stripping (Feature report, figures). McNulty, Kenneth J. (EP)Nov, p. 92
Ho	ot-gas sweetening improves integrated gasifica- tion combined-cycle (IGCC) efficiency (C)
	Feb, p. 19
r	ocess recovers HCl and sulfur dioxide from exhaust gas without creating effluent (C)
	Sept, p. 25
So	lvent-based absorption eliminates costly refrig- eration in ethylene plants (C)Aug, p. 23
A	ccidents
Bo	orosilicate ductwork prevents fire propagation (PN)Oct, p. 179
Н	pechst blast halts R-134a production in Frank-
	furt and Brazil. Ondrey, Gerald (N)
*	Apr, p. 48
	etterJune, p. 8
	dditives in plastic bags helps cut incinerator
A	
m	emissions (C)
	rahNov, p. 67
	dsorbents
	revent spontaneous combustion during vapor control (PN)
	uick and easy way to trap CFCs (C) Mar, p. 19 dsorption
A	dsorption holds its own. Basta, Nicholas, et al. (N)
C	atalytic activity: An added new role for activated carbon (C)Sept, p. 21
G	litsch targets technology-driven growth (N)
M	Jan, p. 46 (icrowaves destroy NOx on coal char (C)
P	roven process of carbon adsorption (Feature Report, Part 3 of 3). Sorrento, Louis (EP)
S	Drption-based gas delivery system prevents acci-
	dental release (C)Feb, p. 17

-	
1	Air Pollution
ı	Extend the life of pollution-control catalysts (fig-
1	ures). Bar Ilan, Armiram, et al
١	Sept EE Supp, p. 22
١	Kawasaki residents score, for now, as an 11-year
١	suit is settled. Moore, Stephen (N).Mar, p. 50
ı	Air Pollution Control
1	Additive in plastic bags helps cut incinerator
ı	emissions (C)
ı	Air Pollution Compliance focuses on paperwork.
ı	Shelley, Suzanne (F)
1	Air-pollution control: Estimate the cost of
1	scaleup. Remer, Donald S., et al
1	
1	Alkaline solution destroys chlorinated air-pollu-
ı	Alkaline solution destroys chlorinated air-pollu-
ı	tants (C)Oct, p. 23
1	Coal slurries: an environmental bonus? Basta,
1	Nicholas, et al. (N)
1	- LetterJuly, p. 10
ı	Combat NOx with better burner design. Straitz
ı	III, John F. & Mendoza, Vincente A
1	Nov EE Supp, p. 4
1	EPA rule aims to cut emissions at local incinera-
١	tors (C)Nov, p. 29
١	Evaporative cooling is key to enhanced recovery
1	of BTEX (C)Dec '93, p. 25
1	Filtration removes dust, NOx and acid gases from
1	fluegas (C)June, p. 17
1	Gearing up for Title V operating permits (figures,
1	tables). Klaber, Kathryn Z. & Weiss, Kenneth
1	N. (EP)June EE Supp. p. 14
1	Get a fix on plant pollutants. Kumar, Ajay
1	Nov, p. 141
1	Glassy slag from this incinerator is easy to land-
	fill (C)
1	Greenhouse-gas treaty goes into effect (C)
	Apr, p. 27
	Growing cost of cleanup, Zanetti, Richard (Ed)
	Japan finds more-efficient power generation the
	key to cutting carbon dioxide. Moore, Stephen
	(N)
	Keeping a lid on volatile liquids (figures). Giffin,
	Gary L
	Membrane systems offer a new way to recover
	volatile organic air pollutants (Feature Re-
	port, Part 3 of 3, tables, figures). Simmons,
	Vicki, et al. (EP)Sept, p. 92
	Membranes meet new environmental challenges
	(Feature Report, Part 1 of 3, tables, figures).
	Cartwright, Peter (EP)Sept, p. 84
	Microwaves destroy NOx on coal char (C)
	May, p. 29
	Model solution for tracking pollution (figures).
	Collins, W. Michael & Terhune, Keith B. (EP).
	June EE Supp, p. 32
	oune is supp, p. 32

RIS, VP-PUBLISHER	PROCESS Leavening product SHHULANTION (S. M. C.
	plifies sulfur removal (C)
New enhanced-en mains unsettl	nissions-monitoring rule re- led. Fadopé, Cece (N)
Norwegian CO ₂ for Sea (C)	inds a home under the North
	the front burner. Shelley,Nov EE Supp, p. 3
Parkinson, G	take aim at a moving target. erald, et al. (N)Jan, p. 28
	Mar, p. 10
cleanup progr	d, nct emitted (Re: Mexico's ram, CE, 10/93, pp. 30-33) (cor-
Pollution prevent	ion meets TQM (Re: Pollution
11/93, pp. 30-	einventing compliance, CE, 43) (postscript) (L)Feb, p. 8
control (PN).	eous combustion during vapor
Software moves i Gulam (N)	nto air emissions. Samdani, Dec, p. 30
	from waste paper, cuts energy x emissions (C)June, p. 25
	e in a burner raises thermal effi- May, p. 29
Sulfur production Parkinson, G	r continues to rise (figures). erald, et al. (N) June, p. 30
	Aug, p. 8
business? (fig	ns: What is the full cost to your gures, tables). Dyer, James &
Muholland, F	Kenneth (EP)Feb EE Supp, p. 4June EE Supp, p. 5
U.S. industry is p	outting a lid on toxic releases
Volatile emission	ronment (C)
	(EP)June EE Supp, p. 7
Why not? A read	er asks (L) Dec, p. 8
diesel engine	soot and NO emissions from s (C) Dec '93, p. 25
	rown in situ make dust-free yst (C)Nov, p. 21
	ontrol Equipment
	mpliance focuses on paperwork.
	anne (F) Dec, p. 91 trol: Estimate the cost of
scaleup. Rem	ner, Donald S., et al
	stion cuts NOx emissions (C)
***************************************	July, p. 21
Keep the pump -	can the motor (PN).Nov, p. 147
NUx reduction of Suzanne (Ed	n the front burner. Shelley,)Nov EE Supp, p. 3



Audits

Oxygenates in	gasoline cut carbon mon	oxide
emissions.	Parkinson, Gerald (N)	Apr. p. 46
	on shaves fuel consumpt	
thermal pr	ocesses (C)	Mar n 19
Aluminum P		, p. 10
	e produces benign waste	e in drose
	(C)J	
Pressure calcin	nation of alumina promis	ene to savo
	J	
	lluminum Alloys	une, p. 20
Electric-arc fu	rnace recovers aluminum	n from
	inacc recovers araniman	
	y takes aim at aluminum	
	Parkinson, Gerald (N)	
	i arkinson, Geraia (14)	
Alcohols	***************************************	oury, p. o
	EPA ruling on ethanol as	a final ad
	ar A runing on ethanol as	
Ethanal from	renewable sources gets a	oct, p. 29
	renewable sources gets a	
Cooppose cools	es up one-step methanol	oan, p. 23
	es up one-step methanor	
Constitution and in	eering boosts prospects fo	Apr, p. 19
	eering boosts prospects it	
TTV diagonistic	on of CFCs hits the road	Sept, p. 21
	on of CrCs mis the road	
Alkalis	***************************************	.Apr, p. 21
	r chlor-alkali. Hairston, I	Dohovah
Alkylation	***************************************	.Oct, p. 19
	s poised to replace HF in	alkulation
	(C)	
Analyzers	(O)	May, p. 23
	osive mixtures (Re: Hoec	hat black
holto P 13	84a production in Frankfi	nst blast
	2, 4/94, p. 48) (L)	
	scopy monitors polymer c	
	copy monitors polymer c	
Microprocess	ors empower online proce	as analys
	ors empower online proce	
Online analys	is primes CPI profits. Fo	reb, p. 133
	as primes CF1 pronts. Fo	
Pomoto comio	es boast online water tre	Mar, p. 31
	es boast online water tre	
Artificial Int		aar, p. 131
	se" smells its way to onli	
))	
	J	.Nov, p. 25
Asbestos		

Federal court decision speeds settlement of as-

Study sees Asia as the next growth spot for process control equipment (N)May, p. 52

bestos cases (C)

.....Sept, p. 27

Keeping CPI plants safe (F)May, p. 121
Technical audits find crucial clues. McCracken,
Philip G
Automation
Automate batching in a multi-product facility.
Dayvolt, Bradley H. & Symonds, F. Peter
(PN)July, p. 151 Award (Kirkpatrick, Personal Achievement)
Kudos for an outstanding engineer. Kim, Irene
(EP)Dec, p. 96
Personal Achievement Award (N)Feb, p. 43
resonariemevenientiward (17)res, p. 40
В
Bacteria
"Biorefining" promises to slash the cost of desul-
furization (C)Mar, p. 27
Bacteria have the gas for metals cleanup (C)
Feb, p. 21
Bacteria makes a meal of vinyl chloride monomer
(C)
Leahy, Maureen C. & Brown, Richard A. (EP)
Chelated iron helps microbes destroy tough toxics
in groundwater (C)Aug, p. 25
Glass-ceramic filter kills bacteria in sanitary ap-
plications (C)Oct, p. 23
Microbes chew on fluegas sulfur dioxide (C)
Apr, p. 17
Microbes go for the gold in sulfide ores (C)
May, p. 21
Photocatalytic sanitary tiles exterminate bacteria
(C)May, p. 25
Batch Processing
Automate batching in a multi-product facility. Dayvolt, Bradley H. & Symonds, F. Peter
(PN)July, p. 151
New organization pushes batch control standards
(C)
Pneumatic mixer eases cleanup of storage-tank
residues (C)Aug, p. 17
Beer
Ultrasound rids beer of small particles (C)
Mar, p. 27
Waste from malting process makes tough

	14
Audits	Bioengineering
Avoiding criminal liabilities. Blattner, J. Wray &	Microbes go for the gold in sulfide ores (C)
Bramble, Gary MJune, p. 127	May, p. 21
Keeping CPI plants safe (F)May, p. 121	Taxol process readies for scaleup (C)May, p. 27
Technical audits find crucial clues. McCracken,	Biomass
Philip G	Biomass gasification produces renewable fuel for
Automation	power generation (C)Nov, p. 19
Automate batching in a multi-product facility.	Insitu oxygenator improves wastewater treat-
Dayvolt, Bradley H. & Symonds, F. Peter	mentSept EE Supp, p. 26
(PN)July, p. 151	Bioremediation
Award (Kirkpatrick, Personal Achievement)	Biology boosts waste treatment. Fouhy, Ken & Grinthal, Wayne (N)Feb, p. 30
Kudos for an outstanding engineer. Kim, Irene	Bioremediation: optimizing results (figures).
(EP) Dec , p. 96	Leahy, Maureen C. & Brown, Richard A. (EP)
Personal Achievement Award (N)Feb, p. 43	May, p. 108
	Chemical route to a biopolymer promises to sup-
В	plant fermentation (C)
0	Japanese will use bioremediation to cleanup a
Bacteria	Chinese mine site. Moore, Stephen (N)
"Biorefining" promises to slash the cost of desul-	Aug, p. 45
furization (C)	Reactor provides controlled conditions for
Bacteria have the gas for metals cleanup (C)	biosolids treatment (C)Feb, p. 21
Feb, p. 21	Soil cleanup: The best of all possible worlds.
Bacteria makes a meal of vinyl chloride monomer	Chowdhury, Jayadev & Fouhy, Ken (N)
(C)Apr, p. 17	Feb, p. 33
Bioremediation: optimizing results (figures).	- LetterJuly, p. 10
Leahy, Maureen C. & Brown, Richard A. (EP)	Steady state model for aerobic biological treat-
May, p. 108	ment. McHarg, William H. (PN)Mar, p. 153
Chelated iron helps microbes destroy tough toxics	Biotechnology
in groundwater (C)Aug, p. 25	Biodegradable plastic is poised to go commercial
Glass-ceramic filter kills bacteria in sanitary ap-	(C)Oct, p. 27
plications (C)Oct, p. 23	- Correction Dec, p. 8
Microbes chew on fluegas sulfur dioxide (C)	Biofiltration makes the organics go down (PN) Apr. p. 153
Apr, p. 17	Direct route to polyactic acid offers a more versa-
Microbes go for the gold in sulfide ores (C)	tile product (C)Oct, p. 25
May, p. 21	Organometallic catalyst is key to this PCB-de-
Photocatalytic sanitary tiles exterminate bacteria	struction route (C) Oct, p. 25
(C)May, p. 25	Bleaching
Batch Processing	A cheaper way to make ozone (C)Nov, p. 25
Automate batching in a multi-product facility.	Activated hydrogen peroxide delignifies and
Dayvolt, Bradley H. & Symonds, F. Peter	bleaches pulp (C)Aug, p. 19
(PN)July, p. 151	Nanofiltration joins electrodialysis in recycling
New organization pushes batch control standards	pulp-bleaching effluent (C)May, p. 21
(C)Apr, p. 21	Blending
Pneumatic mixer eases cleanup of storage-tank	Advanced impeller geometry boosts liquid agita-
residues (C)Aug, p. 17	tion (figures, tables). Penney, W. Roy, et al.
Beer	(EP)Aug, p. 110
Ultrasound rids beer of small particles (C)	Boilers
Mar, p. 27	101 seminar basics. Ganapathy, VAug, p. 133
Waste from malting process makes tough	Hot tips to rejuvenate old boilers. (figures).
boxboard (C)Nov, p. 25	Brandstatter, A.L. & Sawatzki, Howard
Beverages (Alcoholic)	Sept, p. 153
Zero-discharge process "coalifies" distillery	Stirring a cyclone in a burner raises thermal effi-
wastes, generates energy (C)July, p. 17	ciency (C)

C	Catalysts Carbene now has its inorganic counterpart in	Sewage sludge slashes costs in cement manufac- ture (C)July, p. 21
CAD/CAM	silylene (C)	Centrifugation
Industry input vital for R&D in computer-aided	Catalyst-coated impellers slash the costs of oil hy-	New directions in centrifuging (tables, figures).
process design. Fouhy, Ken (N)May, p. 44	drogenation (C)	DeLoggio, Theodore J. & Letki, Alan G. (EP)
Calculations	Catalytic activity: An added new role for acti-	Jan, p. 70
Calculate viscosities for 355 liquids. Yaws, Carl	vated carbon (C)Sept, p. 21	Ceramics
L., et al. (EP) Apr, p. 119	Catalytic reactor design (Feature Report, Part 1	Advanced ceramics take the heat. Hairston, Deb-
Charting NPSH values of pumps. Durand, Ale-	of 2). Bartholomew, Calvin H. & Hecker,	orah Dec, p. 61
jandro Anaya	William C. (EP)	"Biorefining" promises to slash the cost of desul-
Get a fix on plant pollutants. Kumar, Ajay	from heavy oils (C)July, p. 23	furization (C)
How to estimate thermodynamic values over the	Catalytic route to aromatic amines boasts better	Electric-field-induced dispersion may reinvent ce- ramic production (C)
V-L interphase. Carroll, John JNov, p. 143	selectivity (C)Jan, p. 21	Gas cleaning comes out of the bag. Ondrey, Ger-
New correlation for heat capacities (tables, fig-	Chiral catalysts boast better selectivity (C)	ald & Moore, Stephen (N)July, p. 28
ures). Lorensen, Steve & Tedder, Daniel	Feb, p. 19	- CorrectionSept, p. 8
William (EP)June, p. 106	Enzyme crystals make more-stable and reusable	Glass-ceramic filter kills bacteria in sanitary ap-
Now, 16 years later (Re: Friction-factor equation	catalysts (C)	plications (C)Oct, p. 23
spans all fluid-flow regimes, CE, 11/77, pp.	ures). Bar Ilan, Armiram, et al	Harsh chemicals and high temperatures are no
91-92) (postscript) (L)	Sept EE Supp, p. 22	problem for these membranes (C)
Practical guide to energy accounting (Part 1 of 2, figures). (EP)Sept, p. 123	Heavier resids are no problem for this hardy cata-	Dec '93, p. 17
Simple equation for steam quality. Liley, Peter E.	lyst (C)Nov, p. 21	High-temperature superconductors. Ondrey, Ger-
Aug, p. 140	Hydrodynamic cavitation creates nanostructures	ald (N)Jan, p. 43
- PostscriptOct, p. 8	for catalysts (C)Dec '93, p. 17	Microbes chew on fluegas sulfur dioxide (C)
Canada	Modified catalyst tackles NOx at high tempera-	Novel lining technology boosts performance of
Phase tracking measures level for "difficult" liq-	tures (C)Jan, p. 19	glass-lined vessels (C)July, p. 17
uids (C)June, p. 17	New alliances catalyze process performance (F) July, p. 125	Photocatalytic sanitary tiles exterminate bacteria
Capital Spending	New catalyst is key to polymerization of tetrahy-	(C)May, p. 25
CPI capital spending index (C)Dec '93, p. 25	drofuran (C)	CFCs
CPI capital spending index (C) Jan, p. 23 CPI capital spending index (C) Feb, p. 25	New catalyst simplifies sulfur removal (C)	CFC 'black market' is targeted for concerted
CPI capital spending index (C)	May, p. 25	crackdown (C)Nov, p. 29
CPI capital spending index (C)	NOx: U.S. plants take aim at a moving target.	CFCs find a home in environmentally benign ce-
CPI capital spending index (C)May, p. 29	Parkinson, Gerald, et al. (N)Jan, p. 28	ment (C)Oct, p. 19
CPI capital spending index (C)June, p. 25	- Correction	Plasma converts liquid CFCs into harmless poly- meric film or powder (C)
CPI capital spending index (C)July, p. 25	Off-site catalyst activation boosts hydrotreater productivity (C)	Quick and easy way to trap CFCs (C)Mar, p. 19
CPI capital spending index (C)Aug, p. 25	Olefins-to-aromatics process boasts high yield	U.S. clarifies its ban on "nonessential" uses of
CPI Capital Spending Index (C)Sept, p. 29	and energy savings (C)Mar, p. 21	HCFCs (C)
CPI capital spending index (C)Oct, p. 27	Omission in maleic anhydride (Re: Seeking the	UV-dissociation of CFCs hits the road (C)
CPI capital spending index (C)	best route for maleic anhydride, CE, 12/93,	Apr, p. 21
CPI capital spending index (C) Dec, p. 25 Caprolactam	pp. 61-64) (correction) (L)	Chelating Agents
New caprolactam process cuts sulfate wastes (C)	Organometallic catalyst is key to this PCB-de-	Chelated iron helps microbes destroy tough toxics
July, p. 19	struction route (C)Oct, p. 25	in groundwater (C)Aug, p. 25
Carbon	Pulse injection of ferrocene catalyst helps make better carbon fibers (C)	Chemical Engineering
Buckyballs could make fast bucks in the dia-	Refinery catalysts: coping with performance anxi-	Bachelor's degrees in chemical engineering jump
mond-making business (C)Aug, p. 23	ety. Shelley, Suzanne (N)Apr, p. 67	21% (C)
Intense ion beam fixes films fast (C)Jan, p. 17	This photocatalytic system zaps VOCs (C)	fornia AIChE meeting. Parkinson, Gerald (N).
Carbon (Activated)	Oct, p. 27	Dec, p. 46
Adsorption holds its own. Basta, Nicholas, et al. (N)Nov, p. 39	UV light knocks out NOx from fluegas (C)	Hands-on learning: The new wave in Ch.E. edu-
Catalytic activity: An added new role for acti-	Feb, p. 19	cation. Parkinson, Gerald (N)Oct, p. 45
vated carbon (C)Sept, p. 21	Zeolite crystals grown in situ make dust-free deNOx catalyst (C)	Minority hiring: a business imperative. Zanetti,
How to turn burned tires into activated carbon	Zeolite-based isomerization cuts cost of MTBE	Richard (Ed)Dec, p. 5
(C)June, p. 17	production (C)Jan, p. 23	Chemical Engineers
Proven process of carbon adsorption (Feature Re-	CE Buyers Guide	Being a good neighbor. Wilson, Steve
port, Part 3 of 3). Sorrento, Louis (EP)	Re: August Buyers Guide, CE, 8/94, p. 52 and 57)	June, p. 119
July, p. 94	(correction) (L)Sept, p. 10	Chemical engineers ride out the storm (tables).
Carbon Black	Cellulose	Letter Aug, p. 8
Plasma produces carbon black and hydrogen with 100% yield (C)July, p. 23	Waste from malting process makes tough	Kudos for an outstanding engineer. Kim, Irene
Carbon Steel	boxboard (C)	(EP)
Germans label hydroquinone and p-aramide dust	EPA offers an easy way to shop for emissions-	Showing new Ch.E.s the real world. Chopey,
as carcinogenic (C)Oct, p. 29	monitoring devices (C)Sept, p. 23	Nicholas P. (Ed)Sept, p. 5
Carcinogens	Cement Commission of the Commi	Today, it's the 'soft skills' that count. Zanetti,
EPA study reaffirms health risks of dioxin (C)	CFCs find a home in environmentally benign ce-	Richard (Ed)Nov, p. 5
June, p. 27	ment (C)Oct, p. 19	Would-be project engineers take note (Re: So you
Catalysis	Incinerators and cement kilns face off. Kim, Irene	want to be a project engineer, CE, 11/93, pp.
Catalysis and UV light: Vying for VOC destruc-	(N)Apr, p. 41	169-174) (postscript) (L)Jan, p. 8
	- CorrectionJune, p. 10	Chemical Processes
tion (C)Feb, p. 21 Catalytic process makes an unstable cyclic sulfide	Incinerators vs. cement kilns: Vying for rules har-	Catalytic process makes an unstable cyclic sulfide

For optimum control: modify the process, not the	Chromatography	- LetterJune, p. 8
controls (figures, Part 1). Ziegler, J.G. & Con-	Chromatographers think big. Parkinson, Gerald,	Ten (minus one) commandments (Re: Cleanup
nell, J.R. (EP)	et al. (N)Aug, p. 30	goes high tech, CE, 7/94, pp. 39-44) (L)
Hydrodesulfurization process offers a quantum	Chromatography reclaims precious metals from	Nov, p. 8
(C) Dec '93, p. 21	waste streams (C)Feb, p. 17	Ultrathin coating protects plastics from UV light
Look at your process non-invasively (figures, ta-	CIM (Computer Integrated Manufacturing)	(C)Dec '93, p. 23
bles). Jean, Randall & Boyes, Jr., Walt (EP)	Moving plant data on the bus. Basta, Nicholas	Cogeneration
June, p. 84	Nov, p. 149	Btu accounting: showing results (Part 2 of 2, ta-
Molecular 'claws' seize metals from dilute process	Clean Air Act	bles, figures). Nelson, Kenneth E. (EP)
or waste streams (C)Nov, p. 19	CMA Sues EPA over HON rule (C)Sept, p. 31	Oct, p. 130
New alliances catalyze process performance (F)	Don't get caught short on storage-tank rules (fig-	Burning fuel in stages reduces NOx formation (C)
July, p. 125	ures, tables). Myers, Philip E. & Ferry,	Feb, p. 23
New heat exchanger helps boost ammonia capac-	Robert LFeb EE Supp, p. 10	New life for an old crystallizer (C)Jan, p. 21
ity (C)	Drive for cleaner-burning fuel. Shelley, Suzanne	
	& Fouhy, KenJan, p. 61	NOx-nixing combustor cleans up cogeneration
Process recovers HCl and sulfur dioxide from ex-	- Correction	turbines (C)Oct, p. 21
haust gas without creating effluent (C)	EPA changes CAA permit procedure (C)	Columns
Sept, p. 25		Novel column internals boost stripping efficiency
Sulfuric acid is poised to replace HF in alkylation	Apr, p. 27	(PN)Jan, p. 129
processes (C)May, p. 23	Gearing up for Title V operating permits (figures,	Combustion
The frothy market for defoamers. Hairston, Debo-	tables). Klaber, Kathryn Z. & Weiss, Kenneth	Catalytic combustion cuts NOx emissions (C)
rahNov, p. 67	N. (EP)June EE Supp, p. 14	July, p. 21
This cheaper route to fluorobenzene boasts high	Growing cost of cleanup. Zanetti, Richard (Ed)	Combat NOx with better burner design. Straitz
yield (C)	May, p. 5	III, John F. & Mendoza, Vincente A
Chemical Reactions	Keeping a lid on volatile liquids (figures). Giffin,	
A cheaper way to make ozone (C)Nov, p. 25	Gary LFeb, p. 147	Intensify waste combustion with oxygen enrich-
Catalytic reactor design (Feature Report, Part 1	Model solution for tracking pollution (figures).	ment (figures, tables). Shahani, Goutam H.,
of 2). Bartholomew, Calvin H. & Hecker,	Collins, W. Michael & Terhune, Keith B. (EP).	et al
William C. (EP)June, p. 70	June EE Supp, p. 32	NOx reduction on the front burner. Shelley,
Photo-assisted oxidation boosts product selectiv-	NOx: U.S. plants take aim at a moving target.	Suzanne (Ed)Nov EE Supp, p. 3
ity (C)	Parkinson, Gerald, et al. (N)Jan, p. 28	NOx-nixing combustor cleans up cogeneration
Chemicals	- CorrectionMar, p. 10	turbines (C)Oct, p. 21
Acid test: Increasing sulfuric acid production (C)	Put strategic planning into permit development.	
	(Ed)Sept EE Supp, p. 3	Prevent spontaneous combustion during vapor
Apr, p. 21	U.S. clarifies its ban on "nonessential" uses of	control (PN)Dec, p. 127
- LetterJuly, p. 8	HCFCs (C)Feb, p. 27	Water, not air, is the primary source of oxygen in
- Correction (to Letter)Sept, p. 10	Violations of emissions laws may bring federal	this combustor (C)Jan, p. 17
Activated hydrogen peroxide delignifies and	sanctions (C)	- Letter May, p. 10
bleaches pulp (C)Aug, p. 19	Clean Water Act	Communication
Demystifying water treatment. Hairston, Debo-	Revised U.S. Clean Water Act promises to pro-	Do not let a crisis catch you off guard. Wagschal,
rahSept, p. 71	mote innovation (C)Mar, p. 29	JoAnna JSept, p. 159
Drive for cleaner-burning fuel. Shelley, Suzanne	Clean-in-Place	Fieldbus speeds ahead with a demo project and a
& Fouhy, KenJan, p. 61		new protocol (C)Apr, p. 25
- Correction	Cleanup goes high tech. Chowdhury, Jayadev &	Composites
Get the most out of heat transfer fluids. Shelley,	Ondrey, Gerald (N)July, p. 39	Biodegradable plastic is poised to go commercial
Suzanne	- LetterNov, p. 8	(C)Oct, p. 27
Good times for chlor-alkali. Hairston, Deborah	Coal	- Correction
Oct, p. 73	Coal slurries: an environmental bonus? Basta,	Electric-field-induced dispersion may reinvent ce-
Hydrogen peroxide: A potent force to destroy or-	Nicholas, et al. (N)May, p. 34	ramic production (C)
ganics in wastewater (tables, figures). Plant,	- LetterJuly, p. 10	Move beyond basic regulatory process control.
Lysette & Jeff, Martin .Sept EE Supp, p. 16	Experts criticize U.S. energy policy. Kohn, Philip	
	M. (N)July, p. 46	Zanetti, Richard (Ed)
Ion exchange resins. Hairston, Deborah	Fine magnetite particles beneficiate coal for a	Novel lining technology boosts performance of
June, p. 57	massive coal-slurry pipeline (C)Oct, p. 19	glass-lined vessels (C)July, p. 17
Mild-mannered surfactants. Hairston, Deborah	Coal Gasification	Computer Software
July, p. 65	Hot-gas sweetening improves integrated gasifica-	Again, a U.S. consortium seeks industrial-soft-
Nitrogen fertilizers: looking for renewed vitality.	tion combined-cycle (IGCC) efficiency (C)	ware standardization (C)Oct, p. 21
Shelley, SuzanneFeb, p. 65	Feb, p. 19	Art of equipment design. Hairston, Deborah
Refinery catalysts: coping with performance anxi-	India and South Africa plan to build a lignite	June, p. 137
ety. Shelley, Suzanne (N)Apr, p. 67	gasification unit. Siddiqi, Abdul-Rauf (N)	Computerizing the steps of mixer selection (fig-
Reward: \$1 million for a technology to recover	Nov, p. 50	ures). Bakker, André, et al. (EP) .Mar, p. 120
ammonia from wastewater (C)Sept, p. 27	Sulfur recovery method is a 'hot' process (C)	Computers meet their match in mixer designs (F)
Squeaking more performance from lubricants &	Sept, p. 29	Apr, p. 109
greases. Hairston, DeborahAug, p. 63	Coatings	- LetterJune, p. 10
The frothy market for defoamers. Hairston, Debo-	Coatings producers seek long-term solutions (F)	Controller software gains usefulness. Basta,
rahNov, p. 67	Sept, p. 113	NicholasJuly, p. 153
Titanium dioxide producers whiten their ways.	G force replaces solvents in a powder-coating	Drilling for process data
Shelley, Suzanne, et alMar, p. 69	process (C)	Engineers monitor trends at Chemputers II.
Chemicals (Hazardous)	Keeping corrosion at bay (F)June, p. 91	Basta, Nick & Fouhy, KenMar, p. 161
Prevent spontaneous combustion during vapor		Fluid-flow software starts small to get the big pic-
control (PN)Dec, p. 127	Novel lining technology boosts performance of	ture. Grinthal, Wayne
Chlorine	glass-lined vessels (C)July, p. 17	Go electronic with project management. Grinthal,
Good times for chlor-alkali. Hairston, Deborah	Precipitation puts dense films on complex sub-	Wayne
the state of the s	strates (C)	
Debiator protects on invested Desire able all all	Take the guesswork out of plastics selection (ta-	Hardware and software solutions simplify acqui-
Pakistan protests an imported Danish chloralkali	bles, figures). Fultz, Benjamin S., et al. (EP)	sition by PCs and laptops. Grinthal, Wayne
plant. Siddiqi, Abdul-Rauf (N)Dec, p. 48	Oct, p. 84	Feb, p. 157

How to manage a complex wastewater system	Computers (Personal)	Btu accounting: showing results (Part 2 of 2, ta-
(PN)Mar, p. 159	Controller software gains usefulness. Basta,	bles, figures). Nelson, Kenneth E. (EP)
How to stay competitive. Zanetti, Richard (Ed)	NicholasJuly, p. 153	Oct, p. 130
Oct, p. 5	Hardware and software solutions simplify acqui-	Buckyballs could make fast bucks in the dia-
Keeping in touch = staying in control (F)	sition by PCs and laptops. Grinthal, Wayne	mond-making business (C)Aug, p. 23
May, p. 149	Feb, p. 157	Economic IndicatorsJan, p. 152
Learn how to listen to your equipment (F)	Power of PCs. Zanetti, Richard (Ed)Jan, p. 5 Putting the CAD puzzle togetherSept, p. 169	Economic indicators
Nov, p. 127	Workstations provide a failsafe operator interface	Economic IndicatorsMar, p. 182
Maintenance management goes multimedia (fig-	(PN)Aug, p. 147	Economic Indicators
ures). Basta, NicholasAug, p. 151	Condensation	Economic indicators
- LetterJune, p. 10	Steam handling: Pay attention to the condensate	Economic indicatorsJune, p. 158
Model solution for tracking pollution (figures).	(F)	Economic indicatorsJuly, p. 174
Collins, W. Michael & Terhune, Keith B. (EP).	Construction	Economic indicators
June EE Supp, p. 32	CPI engineers build new connections. Parkinson,	Economic indicatorsSept, p. 198
Networking puts new eyes on the process (fig- ures). Dunn, Joe & Morris, Jerry (PN)	Gerald, et al. (N)Nov, p. 32	Economic indicatorsOct, p. 214
May, p. 175	Engineering-construction costs are up! Good	Economic indicators
Pinpoint mixing problems with lasers and simu-	news? (C)Oct, p. 19	Economic indicators
lation software (Part 1, figures). Bakker,	German E&C business booms outside of Ger-	news? (C)Oct, p. 19
André, et al. (EP)Jan, p. 94	many. Ondrey, Gerald (N)May, p. 54	Extrusion process cuts pill-production costs by
Put mathematics in your computer. Basta,	Managing capital projects (Feature Report, Part 1	60% (C)Oct, p. 23
NicholasOct, p. 183	of 2, figures). Merrow, Edward & Yarossi,	Managing capital projects (Feature Report, Part 1
Putting expert systems to work (tables, figures).	Mary Ellen (EP)Oct, p. 108	of 2, figures). Merrow, Edward & Yarossi,
Hingoraney, RajanJan, p. 121	Use contractors effectively. Harding, Jeffrey S	Mary Ellen (EP)Oct, p. 108
Putting the CAD puzzle togetherSept, p. 169	Consultants	Putting a lid on the furnace slashes energy cost in
Reengineering the capital investment process	Use contractors effectively. Harding, Jeffrey S	silicon production (C)Oct, p. 23
(Feature Report, Part 2 of 2, figures). Stein-	Nov, p. 137	Reengineering the capital investment process
berger, Robert L. (EP)Oct, p. 114	Containers	(Feature Report, Part 2 of 2, figures). Stein-
Road to a common byte. Book, Neil L., et al. (EP)	New technology takes aim at aluminum process-	berger, Robert L. (EP)Oct, p. 114
Sept, p. 98	ing waste. Parkinson, Gerald (N) May, p. 44	Solvent is key to making pure cupric oxide crys-
Simulation on a supercomputer leads to substan-	- LetterJuly, p. 8	tals at lower cost (C)June, p. 23
tial savings (C)July, p. 17	PET monomer recycling becomes viable even on a	Steer your process toward optimal operation
- LetterAug, p. 10	small scale (C)	Sept EE Supp, p. 27
Software moves into air emissions. Samdani,	PET process promises to cut operating costs (C)	Take the guesswork out of demineralizer design
Gulam (N)	May, p. 25	(figures). Gorry, Matthew, et al. (EP)
Steer your process toward optimal operation	Containers (Plastic)	Mar, p. 112
Sept EE Supp, p. 27	Pakistani province will ban plastic bags (N)	- LetterJune, p. 8
Equipment-sizing software adds to engineers'	Aug, p. 46	Toxic air emissions: What is the full cost to your
toolkits. Basta, NicholasDec, p. 131	Continuous Processing Chromatographers think big. Parkinson, Gerald,	business? (figures, tables). Dyer, James A. &
Visual programming makes neural networking a		Mulholland, Kenneth (EP)
breeze (C)Dec '93, p. 23	et al. (N)	- Correction
Engineers monitor trends at Chemputers II.	ing. Shelley, Suzanne (PN)June, p. 135	CPI (Chemical Process Industries)
Basta, Nick & Fouhy, KenMar, p. 161	Controllers	Chemical producers in Western Europe are still
Free pass to the world's databases. Chowdhury,	Move beyond basic regulatory process control.	in the doldrums (C)July, p. 21
Jayadev (Ed)July, p. 5	Zanetti, Richard (Ed)Mar, p. 5	CPI capital spending index (C)Dec '93, p. 25
- Letter	Controls	CPI capital spending index (C)Jan, p. 23
Getting the most from advanced process control	For optimum control: Modify your process (Part 2,	CPI capital spending index (C)Feb, p. 25
(figures). Anderson, Jim, et al. (EP)	figures). Ziegler, J.G. & Connell, J.R. (EP)	CPI capital spending index (C)Mar, p. 27
Mar, p. 78	July, p. 107	CPI capital spending index (C)Apr, p. 25
- LetterMay, p. 8	Silicon carbide makes the grade for high-temper-	CPI capital spending index (C)May, p. 29
Information superhighway preps for wider inter-	ature sensors (C)June, p. 19	CPI capital spending index (C)June, p. 25
connectivity (C)Aug, p. 21	Upgrade control capabilities without downtime.	CPI capital spending index (C)July, p. 25
Move beyond basic regulatory process control.	Brown, James L. (PN)Aug, p. 145 Copper	CPI capital spending index (C)Aug, p. 25
Zanetti, Richard (Ed)Mar, p. 5	Liquid emulsion recovers copper from waste	CPI Capital Spending Index (C)Sept, p. 29
Moving plant data on the bus. Basta, Nicholas	streams (C)June, p. 21	CPI capital spending index (C)Oct, p. 27
Nov, p. 149	Solvent is key to making pure cupric oxide crys-	CPI capital spending index (C)Nov, p. 27
Process simulation: The art and science of model-	tals at lower cost (C)June, p. 23	CPI capital spending index (C)Dec, p. 25
ling (Feature report, figures). Glasscock,	Corrections	CPI expos are planned for India and China, as
David A. & Hale, John C. (EP)Nov, p. 82	See: Postscripts, Corrections	local trade grows. Chowdhury, Jayadev, et al.
Road to a common byte. Book, Neil L., et al. (EP)	Corrosion	(N)Aug, p. 41
Sept, p. 98	Keeping corrosion at bay (F)June, p. 91	CPI restructuring hits Japan. Moore, Stephen (N)
Simulation on a supercomputer leads to substan-	Costs	Feb, p. 50
tial savings (C)July, p. 17	Acid test: Increasing sulfuric acid production (C)	European survey finds the public more receptive
- LetterAug, p. 10	Apr, p. 21	to the CPI (N)July, p. 48
Supercomputer process simulation promises bet-	- LetterJuly, p. 8	Mexico's CPI expect better times next year.
ter design of multiphase reactors (C)	- Correction (to Letter)Sept, p. 10	Parkinson, Gerald (N)Oct, p. 48D
July, p. 17	Air-pollution control: Estimate the cost of	Survey finds the CPI to have a "progressive" out-
Tap 'www.ge.com' to enter a new plastics data-	scaleup. Remer, Donald S., et al	look on work issues. Kim, Irene (N)
base (C)Nov, p. 21 Visual programming makes neural networking a	Nov EE Supp, p. 10	Apr, p. 50
breeze (C)	Automatic steam-load shedding cuts costs. May, Donald L	With the new Administration, the Philippines is
51.0020 (O)	Donald L	set for CPI growth (N)July, p. 52

Cryogenics	Effective design for absorption and stripping	Dust Handling
Putting a bounce in your step (Re: Cryogenic	(Feature report, figures). McNulty, Kenneth	Filtration removes dust, NOx and acid gases from
process to recycle tires boasts 97% recovery,	J. (EP)	fluegas (C)June, p. 17
CE, 6/93, p. 21 and Re: Bouncing retreads,	Equipment-sizing software adds to engineers'	Furnace converts dust and fines to stainless steel
CE, 7/94, p. 10) (L)Sept, p. 8	toolkits. Basta, NicholasDec, p. 131	(C)Apr, p. 19
Crystallization	Heat exchanger databases accelerate process de-	Dyes
Cold route to potash from carnalite slashes en-	sign & costing (figures). Hall, Stephen & Mor-	All-natural dyes do without heavy metals and or-
ergy requirements (C)Sept, p. 27	gan, StephenJuly, p. 139	ganic solvents (C)Dec '93, p. 23
Crystallization goes continuous on a moving belt	How and why centrifugal pumps continue to fail.	
(C)June, p. 27	Bloch, Heinz P. (EP)	E
Crystallizers	How to estimate thermodynamic values over the V-L interphase. Carroll, John JNov, p. 143	<u>-</u>
New life for an old crystallizer (C)Jan, p. 21	Industry input vital for R&D in computer-aided	Eastern Europe
Crystals	process design. Fouhy, Ken (N)May, p. 44	Asia and Eastern Europe will swell fluegas desul-
Simple tools make do-it-yourself genetic engineer-	New correlation for heat capacities (tables, fig-	furization orders (N)Apr, p. 52
ing possible (C)	ures). Lorensen, Steve & Tedder, Daniel	Cefic offers Management 101 for Eastern Euro-
	William (EP)June, p. 106	pean executives (N)July, p. 52
D	New directions in centrifuging (tables, figures).	East Bloc technology: Seek innovation and ye shall find it. Ondrey, Gerald & Moore,
	DeLoggio, Theodore J. & Letki, Alan G. (EP)	Stephen (N)Sept, p. 39
Data Collection	Jan, p. 70	EC (European Community)
Hardware and software solutions simplify acqui-	Process simulation: The art and science of model-	Chemical producers in Western Europe are still
sition by PCs and laptops. Grinthal, Wayne	ling (Feature report, figures). Glasscock,	in the doldrums (C)July, p. 21
Feb, p. 157	David A. & Hale, John C. (EP)Nov, p. 82	Copenhagen becomes home to European Environ-
Databases	Proper interface design for pressure vessels. Stikvoort, Walther J. (PN)June, p. 133	ment Agency (C)Dec '93, p. 27
Chemical-property databases for process engi-	Simple equation for steam quality. Liley, Peter E.	Europe promulgates amendment to "Seveso Di-
neering. Green, Mildred R., et al. (EP)	Aug, p. 140	rective" (C)Apr, p. 27
May, p. 99	Take the guesswork out of demineralizer design	European mergers may signal shakeout. Fouhy,
Free pass to the world's databases. Chowdhury,	(figures). Gorry, Matthew, et al. (EP)	Ken (N)Feb, p. 52
Jayadev (Ed)July, p. 5	Mar, p. 112	European survey finds the public more receptive
- Letter	- LetterJune, p. 8	to the CPI (N)
sign & costing (figures). Hall, Stephen & Mor-	Get a fix on plant pollutants. Kumar, Ajay	Hopes fade for European petrochemical restruc- turing (C)
gan, StephenJuly, p. 139	Nov, p. 141	Industry input vital for R&D in computer-aided
Relational databases, a bounty of information	Development	process design. Fouhy, Ken (N)May, p. 44
(figures). Tkacs, Dennis P. (EP)May, p. 90	Which project is best? (figures, tables). Ward,	Recovery remains elusive for European chemical
Tap 'www.ge com' to enter a new plastics data-	Thomas J. (EP)Jan, p. 102	makers (C)
base (C)	Dioxin weakens the immune system (C)	Economics
Dehydration	Sept, p. 23	Arab-Israeli peace pacts may bring business divi-
Evaporative cooling is key to enhanced recovery	EPA study reaffirms health risks of dioxin (C)	dends (N)July, p. 48
of BTEX (C)Dec '93, p. 25	June, p. 27	Economic IndicatorsJan, p. 152
Demo Plants	Disintegration Equipment	Economic indicatorsFeb, p. 180
Fieldbus speeds ahead with a demo project and a	Milling destroys PCBs and other chlorinated or-	Economic Indicators
new protocol (C) Apr, p. 25	ganics (C)June, p. 23	Economic Indicators Apr, p. 180
Ice barrier provides effective containment of un-	Distillation	Economic indicators
derground wastes (C)Aug, p. 23	What's in a label? Plenty (Re: Getting the most	Economic indicators
New caprolactam process cuts sulfate wastes (C)	from advanced process control, CE, 3/94, p.8)	Economic indicatorsAug, p. 172
July, p. 19	(L)May, p. 8	Economic indicatorsSept, p. 198
Denmark	Distributed Control Systems Controller software gains usefulness. Basta,	Economic IndicatorsOct, p. 214
Copenhagen becomes home to European Environ-	NicholasJuly, p. 153	Economic indicatorsNov, p. 174
ment Agency (C)	Today, it's the 'soft skills' that count. Zanetti.	Economic indicatorsDec, p.174
Pakistan protests an imported Danish chloralkali plant. Siddiqi, Abdul-Rauf (N)Dec, p. 48	Richard (Ed)	Recovery remains elusive for European chemical
Design	DOE (U.S. Department of Energy)	makers (C)Jan, p. 23
	Electric-field-induced dispersion may reinvent ce-	Spring heralds economic gains (C)May, p. 31
Advanced impeller geometry boosts liquid agita- tion (figures, tables). Penney, W. Roy, et al.	ramic production (C)Mar, p. 23	Education
(EP)	Showing new Ch.E.s the real world. Chopey,	Hands-on learning: The new wave in Ch.E. edu-
Art of equipment design. Hairston, Deborah	Nicholas P. (Ed)Sept, p. 5	cation. Parkinson, Gerald (N)Oct, p. 45
June, p. 137	Testbed for environmental technologies gets the	Today, it's the 'soft skills' that count. Zanetti,
Catalytic reactor design (Feature Report, Part 1	green light (C)Aug, p. 19	Richard (Ed)Nov, p. 5
of 2). Bartholomew, Calvin H. & Hecker,	Experts criticize U.S. energy policy or lack of it,	Elastomers Take the guesswork out of plastics selection (ta-
William C. (EP)June, p. 70	at Washington summit (N)July, p. 46 Dryers	bles, figures). Fultz, Benjamin S., et al. (EP)
Charting NPSH values of pumps. Durand, Ale-	Pulse-combustion drying puts heat on slurries	Oct, p. 84
jandro AnayaAug, p. 139	(PN)Feb, p. 155	- LetterJune, p. 8
Chemical-property databases for process engi-	Raking money from muck. Fouhy, Ken & Moore,	Electrical Equipment
neering. Green, Mildred R., et al. (EP)	Stephen (N)July, p. 33	Electrical heating of sorbent recovers adsorbed
	Drying Drying	methyl bromide for reuse (C)Oct, p. 21
Cleanup goes high tech. Chowdhury, Jayadev &	Fresh options in drying (figures). Shaw, Fred V.	Electrolysis
Ondrey, Gerald (N)July, p. 39	(EP)July, p. 76	Diaphragm boosts efficiency of water electrolysis
- LetterNov, p. 8	- PostscriptAug, p. 10	above 90% (C)
Combat NOx with better burner design. Straitz	Dust Collectors	Electronic Data Exchange
III, John F. & Mendoza, Vincente A	Re: Dust collector venting: Don't take chances,	Road to a common byte. Book, Neil L., et al. (EP)
	CE, 2/94, pp. 128-133 (L)May, p. 8	Sept, p. 98

Electronic Data Management	Engineering Services	Membranes meet new environmental challenges
Power of PCs. Zanetti, Richard (Ed)Jan, p. 5	CPI engineers build new connections. Parkinson,	(Feature Report, Part 1 of 3, tables, figures).
Electronics	Gerald, et al. (N)Nov, p. 32	Cartwright, Peter (EP)Sept, p. 84
Go electronic with project management. Grinthal,	Environmental product & service roundup	More bureaucratic boondoggling (Re: U.S. site
WayneJan, p. 131	Nov EE Supp, p. 28	cleanups: A new approach, CE, April, 1993,
Electrostatic Precipitators	German E&C business booms outside of Ger-	pp. 30-37 (postscript) (L)Oct, p. 8
Electrostatic precipitators offer handsome pay-	many. Ondrey, Gerald (N)May, p. 54	Ocean dumping permit revoked in Pakistan. Sid-
back (C)Aug, p. 25	New alliances catalyze process performance (F)	diqi, Abdul-Rauf (N)
Employment	July, p. 125	Pakistani province will ban plastic bags (N)
Chemical engineers ride out the storm. Kim,	Safety is integral (Re: Clearing the hurdles:	Aug, p. 46
Irene, et al. (N)June, p. 37	Process scaleup, CE, 11/93, pp. 98-114) (cor-	Performing environmental audits; An engineer's
- Letter	rection) (L)	guide. Morelli, Janis A. (EP)Feb, p. 104
Minority hiring: a business imperative. Zanetti,	Use contractors effectively. Harding, Jeffrey S	- Letter
Richard (Ed)Dec, p. 5	Vietnam comes out of isolation. Moore, Stephen &	vironmental applications (Feature Report,
Liquid emulsion recovers copper from waste	Shanley, Agnes (N)Sept, p. 45	Part 2 of 3, figures). Barber, Terry A. &
streams (C)	Engineers	Miller, Brian D. (EP)Sept, p. 88
Minority hiring: a business imperative. Zanetti,	1994 salary survey: Waiting for good news. Kim,	Punishing polluters: no easy task. Shelley.
Richard (Ed)	Irene	Suzanne (Ed)June EE Supp, p. 3
Water, not air, is the primary source of oxygen in	Continuing education is to become mandatory for	Russia defuses a toxic time bomb. Kim, Irene &
this combustor (C)Jan, p. 17	licensed PEs (C)	Litovkin, Victor (N)Oct, p. 32
- LetterMay, p. 10	Engineers' salaries finally beat inflation in the	Safety is integral (Re: Clearing the hurdles:
Energy	U.S. (C)Sept, p. 23	Process scaleup, CE, 11/93, pp. 98-114) (cor-
Btu accounting: showing results (Part 2 of 2, ta-	Environment	rection) (L)Jan, p. 8
bles, figures). Nelson, Kenneth E. (EP)	As Bhopal decennial nears, environmental ac-	Superfund, round two: natural resource damages.
Oct, p. 130	tivism surges in India. Siddiqi, Abdul-Rauf	Denham, Jr., V. Robert (EM)Dec, p. 123
Experts criticize U.S. energy policy. Kohn, Philip	(N)Nov, p. 46	Testbed for environmental technologies gets the
M. (N)July, p. 46	Audit your environmental contractors. LaRusso,	green light (C)Aug, p. 19
Putting a lid on the furnace slashes energy cost in	Anthony	Air Pollution Compliance focuses on paperwork.
silicon production (C)Oct, p. 23	Avoiding criminal liabilities. Blattner, J. Wray &	Shelley, Suzanne (F)Dec, p. 91
Energy Conservation	Bramble, Gary MJune, p. 127	U.S. may relax its water-pollution laws (C)
Diamond-structured packing cuts separation	Bureaucratic boondoggle (Re: U.S. site cleanups:	June, p. 27
costs (C)	A new approach, CE, 5/93, pp. 30-37) (correc-	- Letter
Electrostatic precipitators offer handsome pay-	tion) (L)	U.S. multinationals top a global environmental
back (C)	CFCs find a home in environmentally benign ce-	U.S. Senate's new majority may change environ-
	ment (C)Oct, p. 19 Coal slurries: an environmental bonus? Basta.	
tomers alike (C) Dec '93, p. 19 Get the most out of steam (figures). Hahn, Glenn	Nicholas, et al. (N)	mental agenda. Fadopé, Cece (N)Dec, p. 40 Enzymes
E. (EP)Jan, p. 80	- LetterJuly, p. 10	Enzyme crystals make more-stable and reusable
Practical guide to energy accounting (Part 1 of 2,	Copenhagen becomes home to European Environ-	catalysts (C)June, p. 17
figures). Nelson, Kenneth E. (EP)	ment Agency (C)Dec '93, p. 27	EPA (U.S. Environmental Protection
Sept, p. 123	Dizzying array of certification programs. Shelley,	Agency)
Pressure calcination of alumina promises to save	Suzanne (Ed)Feb EE Supp, p. 3	Bureaucratic boondoggle (Re: U.S. site cleanups:
energy (C)June, p. 23	Do not let a crisis catch you off guard. Wagschal,	A new approach, CE, 5/93, pp. 30-37) (correc-
Pump up your energy savings (figures). Power,	JoAnna JSept, p. 159	tion) (L)
Robert B. (EP)Feb, p. 120	Dow tops a scoreboard on environmental report-	CFC 'black market' is targeted for concerted
- CorrectionMar, p. 10	ing (C)	crackdown (C)
Solid fuel, made from waste paper, cuts energy	Environmental enforcement reaches record levels	CMA Sues EPA over HON rule (C)Sept, p. 31
costs and SOx emissions (C)June, p. 25	in the U.S. (C)	Court delays EPA ruling on ethanol as a fuel ad-
Solvent-based absorption eliminates costly refrig-	Environmental product & service roundup	ditive (C)Oct, p. 29
eration in ethylene plants (C)Aug, p. 23	Nov EE Supp, p. 28	Dizzying array of certification programs. Shelley,
Steam-powered pumps improve condensate ser-	EPA finds Mexican and U.S. environmental regu-	Suzanne (Ed)Feb EE Supp, p. 3
vice (PN)Nov, p. 145	lations are "on par". Parkinson, Gerald (N)	Electro-osmotic "lasagna" process cleans up cont-
Steer your process toward optimal operation	Feb, p. 44	aminated soil (C)Feb, p. 17
Sept EE Supp, p. 27	Firmer foothold for Mexico's environmental strat-	- LetterJuly, p. 8
Vibratory grinder combines comminution with	egy. Parkinson, Gerald & Chowdhury, Jay (N)	Environmental enforcement reaches record levels
classification, and saves energy (C) Oct, p. 27	June, p. 44	in the U.S. (C)
Energy Sources	Globalization and greening of Achema (N)	EPA adds new chemicals to the Toxic Release In-
Practical guide to energy accounting (Part 1 of 2,	Aug, p. 41	ventory (C)
figures). Nelson, Kenneth E. (EP)	Greenpeace blasts waste projects in the Philipping Populing (N)	EPA allows more hazwaste for testing of new
Energy Technology	pines. Ronquillo, Bernardino (N)Aug, p. 46 Improve plant efficiency and meet environmental	technologies (C)
Methane injection cuts NOx in municipal solid-		EPA changes CAA permit procedure (C)
waste combustors (C)Aug, p. 23	rules (F)	EPA finds Mexican and U.S. environmental regu-
Methane recovery from landfills is growing again	environmental goals. Siddiqi, Abdul-Rauf (N).	lations are "on par". Parkinson, Gerald (N)
in the U.S. (C)July, p. 19	Sept, p. 48	Feb, p. 44
Zero-discharge process "coalifies" distillery	India and the environment, 10 years after	EPA gives MTBE a (mostly) clean bill of health
wastes, generates energy (C)July, p. 17	Bhopal. Rajagopal, R. (N)	(N)Jan, p. 46
Engineering Design	Isotope markers identify polluters and thieves (C)	EPA offers an easy way to shop for emissions-
Air-pollution control: Estimate the cost of	Mar, p. 25	monitoring devices (C)Sept. p. 23
scaleup. Remer, Donald S., et al	It doesn't pay to play the odds. Zanetti, Richard	EPA plans a radical reorganization to focus on in-
Nov EE Supp, p. 10	(Ed)Feb, p. 5	dividual industries (C)Aug, p. 27
Engineering-construction costs are up! Good	Kodak pays millions for RCRA violations (C)	EPA proposes tougher standards for disinfection

EPA reaches out to state agencies to harmonize	Take the guesswork out of demineralizer design	Fibers
pesticide regulations (C)	(figures). Gorry, Matthew, et al. (EP)	Pulse injection of ferrocene catalyst helps make
EPA rule aims to cut emissions at local incinera-	Mar, p. 112	better carbon fibers (C)Aug, p. 27
tors (C)	- LetterJune, p. 8	Fibers (Synthetic)
EPA study reaffirms health risks of dioxin (C) June, p. 27	Used equipment: kicking the tires (tables). Ep- stein, Gregg	New catalyst is key to polymerization of tetrahy- drofuran (C)
EPA tightens control over VOC emissions from	Esterification	Fieldbus
new facilities (C)Oct, p. 29	Drive for cleaner-burning fuel. Shelley, Suzanne	Fieldbus speeds ahead with a demo project and a
EPA's proposed rule would target toxic refinery	& Fouhy, KenJan, p. 61	new protocol (C)Apr, p. 25
emissions (N)Aug, p. 46	- CorrectionApr, p. 10	Fieldbus standard: Light at the end of the tunnel?
Gearing up for Title V operating permits (figures,	Europe	Parkinson, Gerald & Zanetti, Richard (N)
tables). Klaber, Kathryn Z. & Weiss, Kenneth	Research collaborations set a new pace for Euro-	ISP and WorldFIP explore a joint fieldbus solu-
N. (EP)June EE Supp, p. 14	pean R&D. Ondrey, Gerald (N)Aug, p. 43 Evaporation	tion (C)
Industry moves to exempt sensitive information from U.S. Toxic Substances Control Act re-	Brownian diffusion filter produces zero discharge	Films
porting (N)Aug, p. 45	(PN)Sept, p. 167	Intense ion beam fixes films fast (C)Jan, p. 17
It doesn't pay to play the odds. Zanetti, Richard	Evaporation: Think thin film (Part 2 of 2).	Novel lining technology boosts performance of
(Ed)Feb, p. 5	Schurter, Robert V. (EP)Apr, p. 104	glass-lined vessels (C)July, p. 17
Kodak pays millions for RCRA violations (C)	Po*ww*er treatment of liquid wastes slashes	Photocatalytic sanitary tiles exterminate bacteria (C)
Nov, p. 29	solids formation (C)Mar, p. 23 Evaporators	Precipitation puts dense films on complex sub-
NOx: U.S. plants take aim at a moving target.	Evaporator cuts pulp-mill water consumption (C).	strates (C)
Parkinson, Gerald, et al. (N)Jan, p. 28 - CorrectionMar, p. 10	Apr, p. 25	Thin-film thermocouples can take the heat (C)
Pollution prevention meets TQM (Re: Pollution	Evaporators: How to make the right choice (Part	Aug, p. 21
prevention: reinventing compliance, CE,	1 of 2, figures). Lavis, Greg (EP)Apr, p. 92	Filters
11/93, pp. 30-43) (postscript) (L)Feb, p. 8	New evaporator gives sweet performance (PN)	Brownian diffusion filter produces zero discharge (PN)Sept, p. 167
Put strategic planning into permit development.	Extraction May, p. 183	Gas cleaning comes out of the bag. Ondrey, Ger-
(Ed)Sept EE Supp, p. 3	Extraction Extraction route slashes cost of treating contami-	ald & Moore, Stephen (N)July, p. 28
Superfund bill would revise chemical standards.	nated soil (C)	- CorrectionSept, p. 8
Scarlett, Tom (N)	Glitsch targets technology-driven growth (N)	Glass-ceramic filter kills bacteria in sanitary ap-
posed rules from EPA (C)Dec '93, p. 27	Jan, p. 46	plications (C)Oct, p. 23
U.S. petroleum industry wins a CAAA exemption	Ion-selective membrane helps to upgrade metals	Grooved surface extends filter life (PN)
(C)	(C)	Some new facts filter in (Re: Vertical presses
Violations of emissions laws may bring federal	New roles for supercritical fluids. Moore, Stephen	squeeze out savings, CE, 11/93, p. 187) (cor-
sanctions (C)	& Samdani, Gulam (N)	rection) (L)
Equipment	- Correction	Filtration
Advanced impeller geometry boosts liquid agita-	Twist in solubility behavior helps recover car-	Biofiltration makes the organics go down (PN)
tion (figures, tables). Penney, W. Roy, et al.	boxylic acids (C)Feb, p. 23	Apr, p. 153
(EP)Aug, p. 110 Art of equipment design. Hairston, Deborah	Extrusion	Filtration equals innovation (F)Oct, p. 119 Filtration removes dust, NOx and acid gases from
June, p. 137	Extrusion process cuts pill-production costs by	fluegas (C)June, p. 17
Automatic steam-load shedding cuts costs. May,	60% (C)Oct, p. 23	Grooved surface extends filter life (PN)
Donald L	_	Oct, p. 181
Economic IndicatorsJan, p. 152	F	Harsh chemicals and high temperatures are no
Economic indicatorsFeb, p. 180	Feeders	problem for these membranes (C)
Economic Indicators	Automate bulk-solids delivery with feedback con-	Nonefitration ising electrodialwais in recycling
Economic Indicators Apr, p. 180	trol (figures). Wilson, David H. (EP)	Nanofiltration joins electrodialysis in recycling pulp-bleaching effluent (C)
Economic indicators	Aug, p. 87	Spinning membranes resist fouling during filtra-
Economic indicatorsJuly, p. 174	Fermentation	tion (C)July, p. 19
Economic indicatorsAug, p. 172	Chemical route to a biopolymer promises to sup-	Fittings
Economic indicatorsSept, p. 198	plant fermentation (C)	Stop leaks from pipes and fittings (F)
Economic IndicatorsOct, p. 214	Dec '93, p. 21	Flocculation Sept, p. 139
Economic indicatorsNov, p. 174	Vietnam comes out of isolation. Moore, Stephen &	New polyelectrolyte provides both coagulation
Economic indicatorsDec, p. 174	Shanley, Agnes (N)Sept, p. 45	and flocculation (C)Sept, p. 29
Equipment-sizing software adds to engineers'	Fertilizers	Flotation
toolkits. Basta, NicholasDec, p. 131	Cold route to potash from carnalite slashes en-	Air bubbles clarify water and dewater sludge (C)
Forestalling valve leaks pays off (F)Dec, p. 107	ergy requirements (C)Sept, p. 27	June, p. 19
How to dispense gases in liquids. Bakker, André, et al. (EP)Dec, p. 98	Fermentor effluent makes 'organic' fertilizer (C)	- Letter
Learn how to listen to your equipment (F)	Fluegas desulfurization produces salable fertil-	Flow Characterize bulk solids to ensure smooth flow
Nov, p. 127	izer (C)June, p. 21	(figures, tables). Carson, John W. &
Miniaturization reaches the CPI. Moore, Stephen,	How to make fertilizer from phosphate effluent	Marinelli, Joseph (EP)Apr, p. 78
et al. (N)Oct, p. 41	(C)Oct, p. 21	Now, 16 years later (Re: Friction-factor equation
Ranking equipment criticality (tables). Ciliberti,	How to turn burned tires into activated carbon	spans all fluid-flow regimes, CE, 11/77, pp.
V. Anthony	(C)June, p. 17	91-92) (postscript) (L)
Removing the uncertainty in selecting solids mix- ers (Feature report). van den Burgh, Wim	More second-hand plants will save money and	Pinpoint mixing problems with lasers and simu- lation software (Part 1, figures). Bakker,
(EP)	boost output. Siddiqi, Abdul-Rauf (N)	André, et al. (EP)Jan, p. 94
Study sees Asia as the next growth spot for	Nitrogen fertilizers: looking for renewed vitality.	Flowmeters
process control equipment (N) May n 52	Shelley Suzanne Feb n 65	Flowmeters show field intelligence (F) Jan n 87

Fluegases	France	Genetically engineered plants may soon begin to
Asia and Eastern Europe will swell fluegas desul- furization orders (N)Apr, p. 52	Filtration removes dust, NOx and acid gases from fluegas (C)	bear oilseeds (C)
Cost-effective route to convert fluegas sulfur diox-	Fuels	ing possible (C)
ide into sulfuric acid and hydrogen (C)	Biomass gasification produces renewable fuel for power generation (C)Nov, p. 19	Germany Cotalitie route produces slaffing and hudrogen
Dry fluegas scrubbing cuts waste by a factor of 20	Caustic-free process sweetens kerosine (C)	Catalytic route produces olefins and hydrogen from heavy oils (C)
(C)	Jan, p. 19	G force replaces solvents in a powder-coating
Fluegas desulfurization produces salable fertil-	Coal slurries: an environmental bonus? Basta,	process (C)Jan, p. 15
izer (C)June, p. 21	Nicholas, et al. (N)	German E&C business booms outside of Ger-
Gas cleaning comes out of the bag. Ondrey, Ger-	- LetterJuly, p. 10	many. Ondrey, Gerald (N)May, p. 54
ald & Moore, Stephen (N)July, p. 28	Court delays EPA ruling on ethanol as a fuel ad-	Germans label hydroquinone and p-aramide dust
- CorrectionSept, p. 8	ditive (C)	as carcinogenic (C)Oct, p. 29
Greenhouse gas and spent caustic joins forces to	Drive for cleaner-burning fuel. Shelley, Suzanne	PET process promises to cut operating costs (C)
treat sewage (C)Sept, p. 23	& Fouhy, Ken	May, p. 25
Microbes chew on fluegas sulfur dioxide (C)	Ethanol from renewable sources gets a regulatory	Spring heralds economic gains (C)May, p. 31
Modified catalyst tackles NOx at high tempera-	boost (C)Jan, p. 25	Ash, slurry and hazwaste are all for the glasifier
tures (C)Jan, p. 19	Genetic engineering boosts prospects for ethanol	(C)Sept, p. 25
New catalyst simplifies sulfur removal (C)	fuel (C)Sept, p. 21	Borosilicate ductwork prevents fire propagation
	Slurry carbonization is the key to turning MSW	(PN)Oct, p. 179
Spectrometer tracks multiple contaminants in	into high-energy fuel (C)	New glass materials boast greater scratch and
hot fluegas (C)	Solid fuel, made from waste paper, cuts energy	temperature resistance (C)June, p. 23
UV light knocks out NOx from fluegas (C)	costs and SOx emissions (C)June, p. 25 Water, not air is the primary source of oxygen in	Glass Fibers
Feb, p. 19	this combustor (C)Jan, p. 17	A new twist in fiber glass makes for superior in-
Why not? A reader asks (L)	- Letter	sulation (C)Nov, p. 29
Zeolites capture mercury and dioxins from incin- erator fluegas (C)Oct, p. 19	Furnaces	Gold Chromatography reclaims precious metals from
Fluidization	Advanced ceramics take the heat. Hairston, Deb-	waste streams (C)Feb, p. 17
Fluid-bed technology converts iron ore to a car-	orahDec, p. 61	Microbes go for the gold in sulfide ores (C)
bide (C)Feb, p. 17	Combat NOx with better burner design. Straitz	
Fresh options in drying (figures). Shaw, Fred V.	III, John F. & Mendoza, Vincente A.	Greenhouse Effect
(EP)July, p. 76	Electric-arc furnace recovers aluminum from	Greenhouse-gas treaty goes into effect (C)
- PostscriptAug, p. 10	dross (C)	Apr, p. 27
Hydrodynamic cavitation creates nanostructures	Furnace converts dust and fines to stainless steel	Grinders
for catalysts (C)	(C)Apr, p. 19	See: Size Reduction
Fly Ash	Oxygen furnace produces benign wastes in dross	
Induction furnace vitrifies flyash at a reduced	processing (C)June, p. 25	H
cost (C)Nov, p. 19	Putting a lid on the furnace slashes energy cost in	
The frothy market for defoamers. Hairston, Debo-	silicon production (C)Oct, p. 23	Heat Exchangers
rah		Enhance gas processing with reflux heat-ex-
Focus	G	changers. Finn, Adrian J. (EP)May, p. 142 Heat exchanger databases accelerate process de-
Coatings producers seek long-term solutions (F)		sign & costing (figures). Hall, Stephen & Mor-
Sept, p. 113	Gases	gan, StephenJuly, p. 139
Computers meet their match in mixer designs (F)	Enhance gas processing with reflux heat-ex- changers. Finn, Adrian J. (EP)May, p. 142	New heat exchanger helps boost ammonia capac-
Apr, p. 109	Gas cleaning comes out of the bag. Ondrey, Ger-	ity (C) Dec '93, p. 21
- LetterJune, p. 10	ald & Moore, Stephen (N)July, p. 28	Heat Recovery
Improve plant efficiency and meet environmental	- CorrectionSept, p. 8	New heat exchanger helps boost ammonia capac-
Jump starting nature in wastewater treatment	Norwegian CO ₂ finds a home under the North	ity (C) Dec '93, p. 21
(F)Oct, p. 147	Sea (C)	Heat Transfer Get the most out of heat transfer fluids. Shelley,
Keeping corrosion at bay (F)June, p. 91	Onsite production eliminates the hazards of	SuzanneMay, p. 75
Keeping in touch = staying in control (F)	transporting CO (C)Sept, p. 21 Solvent-based absorption eliminates costly refrig-	Heat-transfer fluids get more versatile (F)
May, p. 149	eration in ethylene plants (C)Aug, p. 23	Feb, p. 115
Pump suppliers pump up service (F) Aug, p. 101	Sound way to liquefy natural gas (C)Aug, p. 17	Heating
Steam handling: Pay attention to the condensate	Sour-gas treatment gets more flexible. Isom,	Electrical heating of sorbent recovers adsorbed
(F)	Christopher & Rogers, James (PN)	methyl bromide for reuse (C)Oct, p. 21
Stop leaks from pipes and fittings (F)	July, p. 147	Gas-fired burner heats metals as fast as an induc-
Valve users demand proof of performance (F)	Gaskets	tion heater (C)June, p. 19
June, p. 113	Now we're sealing with gas (F)Nov, p. 103	Hydrocarbons
Food Processing	Gasoline Gasoline desulfurization route ups octane num-	Steam removes mercury and dioxin from contam- inated soil (C)July, p. 23
Fluid-flow software starts small to get the big pic-	ber as well (C)July, p. 25	Hydrocarbons (See also Petrochemicals)
ture. Grinthal, WayneApr, p. 157	Oxygenates in gasoline cut carbon monoxide	Porous plastic removes waterborne hydrocarbon
New roles for supercritical fluids. Moore, Stephen	emissions. Parkinson, Gerald (N)Apr., p. 46	contaminants (C)Apr, p. 23
& Samdani, Gulam, (N)Mar, p. 32	Gear Drives	Hydrocracking
- CorrectionMay, p. 10	Selecting the best gear drive. Kress, David	Triangular gas-cracker design enhances yield (C).
Composition Cont - 0		
- CorrectionSept, p. 8	June, p. 121	July, p. 27
Fractionation	Genetic Engineering	Hydrofinishing

How to make H and cultur from H S (C)	Level measurement is more accurate on contact	Olefins-to-aromatics process boasts high yield
How to make H ₂ and sulfur from H ₂ S (C)	(PN)	and energy savings (C)
Partial oxidation offers a cheaper way to make	(PN)	Waste-dump liner seals its own leaks (C)
hydrogen (C)	Nuclear radiation sees it all. Brenner, Raul (EP)	May, p. 21
Plasma produces carbon black and hydrogen with	Aug, p. 118	Water, not air, is the primary source of oxygen in
100% yield (C)July, p. 23	Phase tracking measures level for "difficult" liq-	this combustor (C)Jan, p. 17
Hydrogenation	uids (C)June, p. 17	- Letter May, p. 10
Catalyst-coated impellers slash the costs of oil hy-	Spring ISA show; Interphex ShowMar, p. 75	Joint Ventures
drogenation (C)Nov, p. 27	Take pressure sensing to new levels (Feature Report, Part II). Nishikawa, Tadashi, et al. (EP).	More second-hand plants will save money and boost output. Siddiqi, Abdul-Rauf (N)
_	Dec, p. 86	Apr, p. 52
	Thin-film thermocouples can take the heat (C)	, p. 02
Incineration	Aug, p. 21	•
Additive in plastic bags helps cut incinerator	Upgrade control capabilities without downtime.	K
emissions (C)	Brown, James L. (PN)Aug, p. 145	Kilns
Dry fluegas scrubbing cuts waste by a factor of 20	When control instruments 'talk,' performance im-	Incinerators and cement kilns face off. Kim.
(C)Apr, p. 19	proves (Feature Report, Part I). Wenstrup, Robert A. (EP)	Irene (N)Apr, p. 41
Glassy slag from this incinerator is easy to land-	Insulation	- CorrectionJune, p. 10
fill (C) Dec '93, p. 19	A new twist in fiber glass makes for superior in-	Incinerators vs. cement kilns: Vying for rules har-
How to incinerate reinforced plastics without de-	sulation (C)	monization (C)Jan, p. 25
stroying the glass inside (C)Mar, p. 23 Incineration: turning up the heat on hazardous	Integrated Circuits	Knowledge-Based Sytems Computerizing the steps of mixer selection (fig-
waste. Fouhy, Ken & Ondrey, Gerald (N)	Silicon carbide makes the grade for high-temper-	ures). Bakker, André, et al. (EP) .Mar, p. 120
May, p. 39	ature sensors (C)June, p. 19	, , , , , , , , , , , , , , , , , , ,
- LetterAug, p. 10	Ion Exchange Ion exchange deal (Feature Report, Part 1 of 3,	
Level measurement is more accurate on contact	figures). DeSilva, Francis J. (EP) July, p. 86	L
(PN)	Ion exchange resins. Hairston, Deborah	Labeling
Pulsed operation shaves fuel consumption in thermal processes (C)	June, p. 57	Covert labeling helps catch polluters and counter-
Incinerators	Ion-exchange resin offers a cheaper route to mag-	feiters (C)July, p. 27
Dry route recovers Hg from incinerator emissions	nesium oxide from dolomite (C)Aug, p. 19	Lasers
(C)May, p. 23	Iron	Pinpoint mixing problems with lasers and simulation activery (Part 1 Squres) Pakker
EPA rule aims to cut emissions at local incinera-	Fluid-bed technology converts iron ore to a car- bide (C)	lation software (Part 1, figures). Bakker, André, et al. (EP)
tors (C)	Isomerization	Leaching
Incinerator risk assessments: change is in the air.	Zeolite-based isomerization cuts cost of MTBE	Leaching with cyanide recovers platinum from
Smith, Douglas, et al. (EP)	production (C)	scrap catalytic converters (C)July, p. 21
Incinerators and cement kilns face off. Kim,	Isotopes	Leaks
Irene (N)	Isotope markers identify polluters and thieves (C)	Sniff out leaks. Ondrey, Gerald (N)Feb, p. 39
- CorrectionJune, p. 10	italy	Trim the total cost of valve ownership (tables, fig- ures). Bodle, James A
Incinerators vs. cement kilns: Vying for rules har-	Triangular gas-cracker design enhances yield (C).	Sept EE Supp, p. 8
monization (C)Jan, p. 25	July, p. 27	Lighting
Zeolites capture mercury and dioxins from incin-	, F	Cured-in-place liner avoids pipeline excavation
erator fluegas (C)Oct, p. 19		(PN) Dec, p. 129
India and the environment, 10 years after	J	Linings
Bhopal. Rajagopal, R. (N)Dec, p. 39	Japan	Get the most ouf of plastic lined pipe (figures, ta- bles). Buxton, L. William & Henthorn, Gre-
As Bhopal decennial nears, environmental ac-	Catalytic process makes an unstable cyclic sulfide	gory V. (EP)Sept, p. 133
tivism surges in India. Siddiqi, Abdul-Rauf	(C)May, p. 31	Lubricants & Greases
(N)	Chemical route to a biopolymer promises to sup-	Squeaking more performance from lubricants &
gasification unit. Siddiqi, Abdul-Rauf (N)	plant fermentation (C)	greases. Hairston, DeborahAug, p. 63
Nov, p. 50	Feb, p. 50	Lubrication
India moves to save the Taj Mahal, as it sets new	Dry route recovers Hg from incinerator emissions	Laser-based prototyping system makes molds from metals (C)
environmental goals. Siddiqi, Abdul-Rauf (N).	(C)	from metals (C)Dec 93, p. 17
Sept, p. 48	How to incinerate reinforced plastics without de-	
Supercritical fluid extraction plant faces a spicy	stroying the glass inside (C)Mar, p. 23	M
future (N)June, p. 46 Information Management	How to turn burned tires into activated carbon	Maintenance
Fieldbus standard: Light at the end of the tunnel?	Japan finds more-efficient power generation the	Capacitance redefining maintenance (figures).
Parkinson, Gerald & Zanetti, Richard (N)	key to cutting carbon dioxide. Moore, Stephen	Petersen, David G. et al. (EP)Aug, p. 76
Nov, p. 44	(N)	Cleanup goes high-tech. Chowdhury, Jayadev &
Information superhighway preps for wider inter-	Japanese CPI mergers proliferate as the eco-	Ondrey, Gerald (N)July, p. 39
connectivity (C)Aug, p. 21	nomic recession drags on. Moore, Stephen (N).	- LetterNov, p. 8
Moving plant data on the bus. Basta, Nicholas	Sept, p. 48	How and why centrifugal pumps continue to fail.
Infrared Nov, p. 149	Japanese will use bioremediation to clean-up a Chinese mine site. Moore, Stephen (N)	Bloch, Heinz P. (EP)Nov, p. 122 Keep the pump – can the motor (PN).Nov, p. 147
Microwave spectrometer measures composition	Aug, p. 45	Keeping CPI plants safe (F)May, p. 121
online (C)	Kawasaki residents score, for now, as an 11-year	Learn how to listen to your equipment (F)
Instrumentation	suit is settled. Moore, Stephen (N).Mar, p. 50	Nov, p. 127
Curb off-spec resins during continuous process-	New regulations prime Japan's remediation busi-	Maintenance management goes multimedia (fig-
ing. Shelley, Suzanne (PN)June, p. 135	ness. Moore, Stephen (N)Feb, p. 50	ures). Basta, NicholasAug, p. 151

Steam-powered pumps improve condensate ser-	Membranes enhance extraction of organic pollu-	Mexico
vice (PN)Nov, p. 145	tants from wastewater (C)Aug, p. 21	Firmer foothold for Mexico's environmental strat-
Treating maintenance as a process. Zanetti,	Membranes meet new environmental challenges	egy. Parkinson, Gerald & Chowdhury, Jay (N)
Richard (Ed)Aug, p. 5	(Feature Report, Part 1 of 3, tables, figures).	June, p. 44
Management	Cartwright, Peter (EP)Sept, p. 84	Mexico's CPI expect better times next year.
Being a good neighbor. Wilson, Steve	Membranes recover chlorinated hydrocarbons	Parkinson, Gerald (N)Oct, p. 48D
June, p. 119	from contaminated water (C)Jan, p. 17	Nafta passage bodes well for the U.S. and Mexico
Cefic offers Management 101 for Eastern Euro-	Membranes recover VOCs from gas streams (C)	(C)Dec '93, p. 25
pean executives (N)July, p. 52	Jan, p. 17	Microprocessors
Do not let a crisis catch you off guard. Wagschal,	Pervaporation boosts efficiency even in tough sep-	Microprocessors empower online process analyz-
JoAnna JSept, p. 159	aration jobs (C)July, p. 21	ers (F)
Extraordinary shakeup at Metallgesellschaft.	Pervaporation find its niche. Shanley, Agnes, et	Microwave Radar
Fouhy, Ken (N)Jan, p. 46	al. (N)Sept, p. 34	Look at your process non-invasively (figures, ta-
Glitsch targets technology-driven growth (N)	Pervaporation technology: Fundamentals and en-	bles). Jean, Randall & Boyes, Jr., Walt (EP)
Jan, p. 46	vironmental applications (Feature Report,	June, p. 84
Go electronic with project management. Grinthal,	Part 2 of 3, figures). Barber, Terry A. &	Microwaves
WayneJan, p. 131	Miller, Brian D. (EP)Sept, p. 88	Microwave spectrometer measures composition
Labor groups accuse U.S. firms of illegally firing	Solvents: Know your options (figures). Anderson,	online (C)
Mexican workers. Shanley, Agnes (N)	Jim, et al. (EP)	Microwaves destroy NOx on coal char (C)
Mar, p. 52	- Postscript	May, p. 29
Maintenance management goes multimedia (fig-	Spinning membranes resist fouling during filtra-	Mideast
ures). Basta, NicholasAug, p. 151	tion (C)July, p. 19	
Managing capital projects (Feature Report, Part 1	Spiral-wound membane strips organics from air	Arab-Israeli peace pacts may bring business divi-
of 2, figures). Merrow, Edward & Yarossi,	Feb EE Supp, p. 27	dends (N)July, p. 48
Mary Ellen (EP)Oct, p. 108	Membranes (Reverse Osmosis)	Minerals
Reengineering: beyond TQM. Chowdhury,	Going forward with reverse osmosis (Feature Re-	Ion-exchange resin offers a cheaper route to mag-
Jayadev (N)	port, Part 2 of 3, figures). Comb, Lee F. (EP)	nesium oxide from dolomite (C)Aug, p. 19
Reengineering the capital investment process	July, p. 90	Why not? A reader asks (L)
(Feature Report, Part 2 of 2, figures). Stein-	Ion exchange resins. Hairston, Deborah	Miniaturization
berger, Robert L. (EP)Oct, p. 114	June, p. 57	Miniaturization reaches the CPI. Moore, Stephen,
Showing new Ch.E.s the real world. Chopey,	Membranes meet new environmental challenges	et al. (N)Oct, p. 41
Nicholas P. (Ed)Sept, p. 5	(Feature Report, Part 1 of 3, tables, figures).	Mixers
Survey finds the CPI to have a "progressive" out-		Computerizing the steps of mixer selection (fig-
	Cartwright, Peter (EP)Sept, p. 84	ures). Bakker, André, et al. (EP) .Mar, p. 120
look on work issues. Kim, Irene (N)	Mercury	Computers meet their match in mixer designs (F)
Apr, p. 50	Continuous route sports high Hg recovery at low	Apr, p. 109
Surving shiftwork. Richey, Preston Sept, p. 149	cost (C)	- LetterJune, p. 10
Would-be project engineers take note (Re: So you	Dry route recovers Hg from incinerator emissions	Don't overlook static-mixer reactors (Feature Re-
want to be a project engineer, CE, 11/93, pp.	(C)	port, Part 2 of 2, figures). Rogers, James A. &
169-174) (postscript) (L)Jan, p. 8	Steam removes mercury and dioxin from contam-	Streiff, F.A. (EP)June, p. 76
Management Information Systems	inated soil (C)July, p. 23	How to dispense gases in liquids. Bakker, André,
Information management improves plastics pro-	Two-stage heating removes mercury from conta-	et al. (EP)
duction (PN)	minated soil and process waste (C).Oct, p. 25	Pneumatic mixer eases cleanup of storage-tank
Materials	Mergers	residues (C)
Advanced ceramics take the heat. Hairston, Deb-	American Home Products acquires American	Portable mixer fluidizes tar-like residue (PN)
orah	Cyanamid for \$9.7 billion (C)Sept, p. 27	Sept, p. 165
Advanced materials technology is key to spent	Hydrogen 101 (a retake) (Re: High pressure oper-	Removing the uncertainty in selecting solids mix-
HCL recovery (C)May, p. 27	ations, CE, 9/93, pp. 98-108)(correction) (L)	
Buckyballs: The next generation may be made	Apr, p. 10	ers (Feature report). van den Burgh, Wim
from nitrogen (C) Dec '93, p. 19	Japanese CPI mergers proliferate as the eco-	(EP)
New glass materials boast greater scratch and	nomic recession drags on. Moore, Stephen (N).	Submersible mixers give sweet returns (PN)
temperature resistance (C)June, p. 23	Sept, p. 48	Feb, p. 151
Re: Materials of construction, CE, 10/94, (table),	Metal Processes	Mixing
p. 99 (L)Nov, p. 8	Gas-fired burner heats metals as fast as an induc-	Advanced impeller geometry boosts liquid agita-
Surfaces: More than they seem. Grinthal, Wayne,	tion heater (C)June, p. 19	tion (figures, tables). Penney, W. Roy, et al.
et al. (N) Apr, p. 35	Metallurgy	(EP)Aug, p. 110
Take the guesswork out of plastics selection (ta-	Laser-based prototyping system makes molds	Pinpoint mixing problems with lasers and simu-
bles, figures). Fultz, Benjamin S., et al. (EP)	from metals (C) Dec '93, p. 17	lation software (Part 1, figures). Bakker,
Oct, p. 84	Molecular 'claws' seize metals from dilute process	André, et al. (EP)Jan, p. 94
Tiny particles aim for big markets. Samdani,	or waste streams (C)Nov, p. 19	The high-efficiency road to liquid-solid agitation.
Gulam, et al. (N)Aug, p. 35	Metals	(figures). Corpstein, Robert R., et al. (EP)
Membranes	Ion-selective membrane helps to upgrade metals	Oct, p. 138
Diaphragm boosts efficiency of water electrolysis	(C)Mar, p. 25	Monitors
above 90% (C)Apr, p. 21	Porous resin selectively recovers metals from	New enhanced-emissions-monitoring rule re-
Enhance gas processing with reflux heat-ex-	aqueous streams (C)Sept, p. 31	mains unsettled. Fadopé, Cece (N)
changers. Finn, Adrian J. (EP)May, p. 142	Recovering metals from wastes. Parkinson, Ger-	Dec, p. 42
Harsh chemicals and high temperatures are no	ald, et al. (N)	Take pressure sensing to new levels (Feature Re-
problem for these membranes (C)	- CorrectionJune, p. 10	port, Part II). Nishikawa, Tadashi, et al. (EP)
Dec '93, p. 17	Take the guesswork out of plastics selection (ta-	Dec, p. 86
Ion-selective membrane helps to upgrade metals	bles, figures). Fultz, Benjamin S., et al. (EP)	Vibration monitoring cuts mag-pump mainte-
(C)Mar, p. 25	Oct, p. 84	nance (C)Apr, p. 17
Membrane systems offer a new way to recover	Meters	MTBE (Methyl tert-Butyl Ether)
volatile organic air pollutants (Feature Re-	Re: pH electrode is immune to sodium and oxida-	Drive for cleaner-burning fuel. Shelley, Suzanne
port, Part 3 of 3, tables, figures). Simmons,	tion conditions, CE, 3/94, p. 76D-35 (76I-10)	& Fouhy, Ken (N)Jan, p. 61
Vicki, et al. (EP)Sept, p. 92	(correction) (L)	- CorrectionApr, p. 10
	,	T'I'

Study explains MTBE's health effects, but some aren't convinced (N)Sept, p. 52	Nuclear Wastes Zeolite cleans ups nuclear waste (C)Nov, p. 27	Oxidation Battery destroys liquid organic wastes (C)
Zeolite-based isomerization cuts cost of MTBE	Leonte cleans ups nuclear waste (C)Nov, p. 27	Battery destroys liquid organic wastes (C)
production (C)Jan, p. 23	0	Gasprom scales up one-step methanol synthesis
N	Oil (Crude)	How to make H ₂ and sulfur from H ₂ S (C)
	Vietnam comes out of isolation. Moore, Stephen &	Nov, p. 19
Natural Gas	Shanley, Agnes (N)Sept, p. 45	Hydrogen peroxide: A potent force to destroy or-
Experts criticize U.S. energy policy. Kohn, Philip	Oil Spills	ganics in wastewater (tables, figures). Plant,
M. (N)July, p. 46	Chelated iron helps microbes destroy tough toxics	Lysette & Jeff, Martin .Sept EE Supp, p. 16 Partial oxidation offers a cheaper way to make
Gasprom scales up one-step methanol synthesis	in groundwater (C)Aug, p. 25	hydrogen (C)
(C)Apr, p. 19	Oils (Vegetable)	Photo-assisted oxidation boosts product selectiv-
Methane recovery from landfills is growing again	Catalyst-coated impellers slash the costs of oil hy-	ity (C)
in the U.S. (C)	drogenation (C)Nov, p. 27	Po*ww*er treatment of liquid wastes slashes
Sour-gas treatment gets more flexible. Isom, Christopher & Rogers, James (PN)	Genetically engineered plants may soon begin to	solids formation (C)Mar, p. 23
July, p. 147	bear oilseeds (C)Nov, p. 23	Solvent is key to making pure cupric oxide crys-
Natural Gas (LNG; Liquefied Natural Gas)	Operation & Maintenance	tals at lower cost (C)June, p. 23
Burning fuel in stages reduces NOx formation (C)	Automatic steam-load shedding cuts costs. May,	Supercritical-water oxidation destroys chemical
Feb, p. 23	Donald L	weapons (C)July, p. 25
Sound way to liquefy natural gas (C) Aug, p. 17	Cleanup goes high tech. Chowdhury, Jayadev &	Supercritical-water oxidation tackles chlorinated
NDT (Nondestructive Testing)	Ondrey, Gerald (N)	organics (C)
Forestall failures by nondestructive testing.	Consider plastic spray nozzles. Kohley, Bill	Understanding Oxidation Reduction Potential
Thielsch, Helmut & Cone, Florence M. (EP)	Consider plastic spray nozzies. Koniey, Bill	systems (figures). McPherson, Lori
Nov, p. 112	Forestall failures by nondestructive testing.	Oxygen Mar, p. 143
Netherlands	Thielsch, Helmut & Cone, Florence M. (EP)	Insitu oxygenator improves wastewater treat-
Cleaner route to "harden" soft wood (C)	Nov, p. 112	mentSept EE Supp, p. 26
Mar, p. 21	Grooved surface extends filter life (PN)	Ozone
Networking	Oct, p. 181	A cheaper way to make ozone (C)Nov, p. 25
CPI engineers build new connections. Parkinson,	Heat exchanger databases accelerate process de-	Adapting ozonation for soil and groundwater
Gerald, et al. (N)	sign & costing (figures). Hall, Stephen & Mor-	cleanup. Nelson, Christopher H. & Brown,
Moving plant data on the bus. Basta, Nicholas	gan, StephenJuly, p. 139	Richard ANov EE Supp, p. 18
Nov. p. 149	Hot tips to rejuvenate old boilers. (figures).	Ozone: Generated, not emitted (Re: Mexico's
Networking puts new eyes on the process (fig-	Brandstatter, A.L. & Sawatzki, Howard	cleanup program, CE, 10/93, pp. 30-33) (cor-
ures). Dunn, Joe & Morris, Jerry (PN)	Sept, p. 153	rection) (L)Mar, p. 8
	How and why centrifugal pumps continue to fail. Bloch, Heinz P. (EP)Nov, p. 122	
Visual programming makes neural networking a	Keeping a lid on volatile tiquids (figures). Giffin,	P
breeze (C) Dec '93, p. 23	Gary LFeb, p. 147	=
	Putting expert systems to work (tables, figures).	Packaging Materials
News Briefs	Hingoraney, RajanJan, p. 121	PET process promises to cut operating costs (C)
India and South Africa plan to build a lignite gasification unit. Siddiqi, Abdul-Rauf (N)	Ranking equipment criticality (tables). Ciliberti,	Packings May, p. 25
Nov, p. 50	V. AnthonyOct, p. 175	Diamond-structured packing cuts separation
Philippines projects are slated in petrochemical	Selecting the best gear drive. Kress, David	costs (C)
and oleochemicals (N)Nov, p. 50	June, p. 121	Multiple-rib geometry is key to this tower-pack-
As Bhopal decennial nears, environmental ac-	Treating maintenance as a process. Zanetti,	ing's efficiency (C)Sept, p. 3
tivism surges in India. Siddiqi, Abdul-Rauf	Richard (Ed)	Packing improvements in valves lead to substan-
(N)Nov, p. 46	Understanding Oxidation Reduction Potential	tial savings (C)Mar, p. 21
EPA gives MTBE a (mostly) clean bill of health	systems (figures). McPherson, Lori	Pakistan
(N)Jan, p. 46	Used equipment: kicking the tires (tables). Ep-	Pakistan protests an imported Danish chloralkal
Extraordinary shakeup at Metallgesellschaft.	stein, Gregg	plant. Siddiqi, Abdul-Rauf (N)Dec, p. 4
Fouly, Ken (N)Jan, p. 46	Ordnance	Paper
Fieldbus standard: Light at the end of the tunnel? Parkinson, Gerald & Zanetti, Richard (N)	Supercritical-water oxidation destroys chemical	U.S. paper industry preps for a strong growth in recycling (C)
Parkinson, Geraid & Zanetti, Richard (N)	weapons (C)July, p. 25	Waste from malting process makes tough
Glitsch targets technology-driven growth (N)	OSHA (U.S. Occupational Safety and	boxboard (C)Nov, p. 2
Jan, p. 46	Health Administration)	PCBs (Polychlorinated Biphenyls)
Nickel, Nickel Alloys	Clarifying workplace standards (Re: Plant work-	Fungi crack chlorinated organics in soil cleanup
Bioremediation: optimizing results (figures).	place standards tighten, CE, 11/93, pp. 45-49)	(C)May, p. 2
Leahy, Maureen C. & Brown, Richard A. (EP)	(correction) (L)Feb, p. 10	Gas-phase chemical reduction offers an alterna-
May, p. 108	Osmosis	tive to incineration (C)Jan, p. 1
Nitrogen	Electro-osmotic "lasagna" process cleans up cont-	Milling destroys PCBs and other chlorinated or-
Buckyballs: The next generation may be made	aminated soil" (C)Feb, p. 17	ganics (C)June, p. 2
from nitrogen (C)	- LetterJuly, p. 8	Organometallic catalyst is key to this PCB-de-
Nitrogen fertilizers: looking for renewed vitality.	Reverse osmosis tackles tough water-cleanup	struction route (C)Oct, p. 2
Shelley, Suzanne	problems (C) July, p. 23	People
Use nitrogen to boost plant safety and product	OTA (U.S. Congressional Office of Tech-	Baggett, John, of Union Camp Corp. Brandt,
quality (figures, tables). Laut, Philippe B. &	nology Assessment)	Chay CK of ROC Cases Foulty Ken
Johnstone, David W. (EP)June, p. 96 Norway	Energy efficiency can benefit utilities and cus- tomers alike (C)	Chow, C.K., of BOC Gases. Fouhy, Ken
	Environmental and business goals needn't be in	Coble, Hugh, of Fluor Daniel Inc. Parkinson, Ger
Norwegian CO ₂ finds a home under the North Sea (C)Nov, p. 23	conflict. Basta, Nicholas (N)Apr, p. 48	ald May, p. 8

de Pinho, Maria, of Instituto Superior Técnico.	Pipe (Glass, Plastic, Metal)	Polyester Resins
Ondrey, GeraldSept, p. 77	Get the most ouf of plastic lined pipe (figures, ta-	PET monomer recycling becomes viable even on a
Deavenport, Earnest, of Eastman Chemical Co.	bles). Buxton, L. William & Henthorn, Gre-	small scale (C)
Shanley, AgnesNov, p. 73	gory V. (EP)Sept, p. 133	Polymerization
Kaneko, Takeo, of Techno-Staff Co. Moore,	Cured-in-place liner avoids pipeline excavation	Carbene now has its inorganic counterpart in
StephenJuly, p. 69	(PN) Dec, p. 129	silylene (C)
Pervaporation	Stop leaks from pipes and fittings (F)	New catalyst is key to polymerization of tetrahy-
Pervaporation find its niche. Shanley, Agnes, et	Sept, p. 139	drofuran (C)Jan, p. 15
al. (N)Sept, p. 34	Pipelines	Philippines projects are slated in petrochemical
Pervaporation technology: Fundamentals and en-	Cured-in-place liner avoids pipeline excavation	and oleochemicals (N)Nov, p. 50
vironmental applications (Feature Report,	(PN)	Polymers
Part 2 of 3, figures). Barber, Terry A. &	Fine magnetite particles beneficiate coal for a	Chemical route to a biopolymer promises to sup-
Miller, Brian D. (EP)Sept, p. 88	massive coal-slurry pipeline (C)Oct, p. 19	plant fermentation (C)
Pesticides	Piping	FTIR spectroscopy monitors polymer composition
EPA reaches out to state agencies to harmonize	Horizontal piping grid speeds site cleanup	online (C)Nov, p. 25
pesticide regulations (C)	Nov EE Supp, p. 24	Optoelectronic polymers boast superior light-
Petrochemicals (See also Hydrocarbons)	Re: Materials of construction, CE, 10/94, (table),	emission efficiency (C)Sept, p. 27
Bacteria makes a meal of vinyl chloride monomer	p. 99 (L)	Pervaporation technology: Fundamentals and en-
(C)Apr, p. 17	Plasma	vironmental applications (Feature Report,
Catalytic route produces olefins and hydrogen	Plasma converts liquid CFCs into harmless poly-	Part 2 of 3, figures). Barber, Terry A. &
from heavy oils (C)July, p. 23	meric film or powder (C)Aug, p. 17	Miller, Brian D. (EP)Sept, p. 88
European mergers may signal shakeout. Fouhy,	Plasma produces carbon black and hydrogen with	Polymer recovers uranium from wastewater (C)
Ken (N)Feb, p. 52	100% yield (C)July, p. 23 Plastic Resins	Feb, p. 23
Hopes fade for European petrochemical restruc-		Pyrolysis of polyvinyl chloride produces benzene,
turing (C)Jan, p. 25	Additive in plastic bags helps cut incinerator	toluene and xylenes fuel (C)June, p. 21
Olefins-to-aromatics process boasts high yield	emissions (C)	Simulation of polymer processes leads to bottom-
and energy savings (C)		line improvements (C)Sept, p. 23
Omission in maleic anhydride (Re: Seeking the	ing. Shelley, Suzanne (PN)June, p. 135 Ion exchange resins. Hairston, Deborah	Postscripts, Corrections
best route for maleic anhydride, CE, 12/93,	June, p. 57	Re: Accuracy in temperature mesurements, CE,
pp. 61-64) (correction) (L)	Plastics Plastics	12/93, pp. 84-87 (correction) (L)Feb, p. 8
Recycling offgas increases yields of maleic anhy-	Biodegradable plastic is poised to go commercial	Re: Air bubbles clarify water and dewater sludge,
dride (C)Apr, p. 23	(C)Oct, p. 27	CE, 6/94, pp. 19-21 (L)Aug, p. 10
Reengineering ethylene's cold train. Shelley,	- Correction	Re: August Buyers Guide, CE, 8/94, p. 52 and 57
Suzanne (N)	Consider plastic spray nozzles. Kohley, Bill	(correction) (L)Sept, p. 10
Petroleum Products	Apr, p. 147	Re: Becoming a successful consultant, CE, 10/94,
Caustic-free process sweetens kerosine (C)	How to incinerate reinforced plastics without de-	pp. 165-168 (correction) (L) Dec, p. 8
Jan, p. 19	stroying the glass inside (C)Mar, p. 23	Re: Biogradable plastic is poised to go commer-
Chevron and IFP demonstrate a new aromatic	Information management improves plastics pro-	cial, CE, 10/94, p. 27 (correction) (L). Dec, p. 8
separations process. Fouhy, Ken & Parkin-	duction (PN)	Re: Clearing the hurdles: Process scaleup, CE,
son, Gerald (N)	Mechanical friction converts plastics waste into	11/93, pp. 98-114 (correction) (L)Jan, p. 8
U.S. petroleum industry wins a CAAA exemption	thermoplastics (C)June, p. 25	Re: Demystifying the selection of mist elimina-
(C)	Optoelectronic polymers boast superior light-	tors, CE, 11/93, pp. 148-156 (correction) (L)
Petroleum Refining	emission efficiency (C)Sept, p. 27	June, p. 10
"Biorefining" promises to slash the cost of desul-	Porous plastic removes waterborne hydrocarbon	Re: Drive for cleaner-burning fuel, 1/94, pp. 61-63
furization (C)	contaminants (C)Apr, p. 23	(correction) (L)Apr, p. 10
Drive for cleaner-burning fuel. Shelley, Suzanne	Post-consumer plastics may make feedstocks for a	Re: Fresh options in drying, CE, 7/94, p. 80 (L)
& Fouhy, KenJan, p. 61	coking unit (C)Jan, p. 19	Aug, p. 10
- CorrectionApr, p. 10	Re: Materials of construction, CE, 10/94, (table),	Re: Gas cleaning comes out of the bag, CE, 7/94,
Dust collector venting, don't take chances (fig-	p. 99 (L)Nov, p. 8	pp. 28-31 (correction) (L)Sept, p. 8
ures, tables). Black, Gregory J. (EP)	Take the guesswork out of plastics selection (ta-	Re: Gear pump eliminates rotor-to-rotor contact,
Feb, p. 128	bles, figures). Fultz, Benjamin S., et al. (EP)	CE, 2/94, p. 76D-1 (76I-2) (correction) (L)
- Letter	Oct, p. 84	May, p. 10
EPA's proposed rule would target toxic refinery	Tap 'www.ge.com' to enter a new plastics data-	Re: High pressure operations, CE, 9/93, pp. 98-
emissions (N)Aug, p. 46	base (C)Nov, p. 21	108 (correction) (L)Apr, p. 10
Heavier resids are no problem for this hardy cata-	Ultrathin coating protects plastics from UV light	Re: Hydrotreatment upgrades waste lube oils,
lyst (C)	(C) Dec '93, p. 23	CE, 8/93, p. 23 (correction) (L)Jan, p. 8
Refinery catalysts: coping with performance anxi-	Platinum	Re: Improve plant efficiency and meet environ-
ety. Shelley, Suzanne (N)	Leaching with cyanide recovers platinum from	mental rules CE, 4/94, pp. 131-138 (correc-
Pharmaceuticals	scrap catalytic converters (C)July, p. 21	tion) (L)
Chiral catalysts boast better selectivity (C)	Pollution Control	Re: Incinerators and cement kilns face off, CE,
Feb, p. 19	Adapting ozonation for soil and groundwater	4/94, pp. 41-45 (correction) (L)June, p. 10
Extrusion process cuts pill-production costs by	cleanup. Nelson, Christopher H. & Brown,	Re: Materials of construction, CE, 10/94, (table),
60% (C)Oct, p. 23	Richard ANov EE Supp, p. 18	p. 99 (L)
Spring ISA show; Interphex ShowMar, p. 75	Extraction route slashes cost of treating contami-	Re: Mexico's cleanup program, CE, 10/93, pp. 30-
Taxol process readies for scaleup (C)May, p. 27	nated soil (C)Dec '93, p. 21	33 (correction) (L)Mar, p. 8
	Horizontal piping grid speeds site cleanup	Re: New Products & Services, CE, 10/93, p.80D-
Philippines	Nov EE Supp, p. 24	22 (correction) (L)
Philippines projects are slated in petrochemical	In situ vitrification gains ground in soil treatment	Re: New Products & Services, CE, 11/93, p.96D-
and oleochemicals (N)	Nov EE Supp, p. 26	44, 96I-26 (correction) (L)Jan, p. 8
U.S. technology will help clean up Manila's Pasig	Isotope markers identify polluters and thieves (C)	Re: New roles for supercritical fluids, CE, 3/94, p.
River. Ronquillo, Bernardino (N)Oct, p. 52	Mar, p. 25	32 (correction) (L)May, p. 10, Sept, p. 8
With the new Administration, the Philippines is	Trim the total cost of valve ownership (tables, fig-	Re: NOx: U.S. plants take aim at a moving target,
set for CPI growth (N)July, p. 52	ures). Bodle, James ASept EE Supp, p. 8	CE, 1/94, pp 28-31 (correction)(L)Mar, p. 10

Re: pH electrode is immune to sodium and oxida-	Keep control valves in working order (Part 2, fig-	Purification
tion conditions, CE, 3/94, p. 76D-35 (76I-10)	ures). Bresler, Dana & Rodda, James R. (EP)	Crystallization goes continuous on a moving belt
(correction) (L)May, p. 10	Feb, p. 98	(C)June, p. 27
Re: Plant workplace standards tighten, CE,	Keeping in touch = staying in control (F)	Pyrolysis
11/93, pp. 45-49 (correction) (L)Feb, p. 10	May, p. 149	Biomass gasification produces renewable fuel for
Re: Seeking the best route for maleic anhydride,	Networking puts new eyes on the process (fig-	power generation (C)Nov, p. 19
CE, 12/93, pp. 61-64 (correction) (L).Mar, p. 8	ures). Dunn, Joe & Morris, Jerry (PN)	Controlled pyrolysis turns tires into oil, steel and
Re: Pump up your energy savings, CE, 2/94, pp.	New organization pushes batch control standards	carbon black (C)Jan, p. 21
120-126 (correction) (L)	(C)	Pyrolysis of polyvinyl chloride produces benzene,
Re: Recovering metals from waste, CE, 4/94, pp.	Putting expert systems to work (tables, figures).	toluene and xylenes fuel (C)June, p. 21
30-33 (correction) (L)June, p. 10 Re: Simulation on a supercomputer leads to sub-	Hingoraney, RajanJan, p. 121	
stantial savings, CE, 7/94, p.17 (L) Aug, p. 10	Reduce project-cycle time (figures). Barlog,	Q
Re: Solvents: Know your options, CE, 3/94, pp. 92-	Roman (Ray) J. & Ginn, Dana K. July, p. 133	Quality Control
100 (postscript) (L)	Sensors: Your link to process control (F)	Reengineering: beyond TQM. Chowdhury,
Re: Tell your company story with video, CE, 4/94,	July, p. 97	Jayadev (N)
pp. 143-144 (correction) (L)June, p. 10	Some new facts filter in (Re: Vertical presses	out and the same of the same o
Re: Titanium dioxide makers whiten their ways,	squeeze out savings, CE, 11/93, p. 187) (correction) (L)	_
CE, 3/94, p. 71 (correction) (L)May, p. 10	Study sees Asia as the next growth spot for	R
Re: Toxic air emissions: What is the full cost to	process control equipment (N)May, p. 52	R&D
your business? EE supplement, 2/94, pp. 4-8	Upgrade control capabilities without downtime.	Industry input vital for R&D in computer-aided
(correction) (L)June EE Supp, p. 5	Brown, James L. (PN)Aug, p. 145	process design. Fouhy, Ken (N)May, p. 44
Re: U.S. may relax its water-pollution laws, CE, 6/94, p. 27 (L)	When control instruments 'talk,' performance im-	R&D expenditures this year may see negligible
Re: U.S. site cleanups: A new approach, CE, 5/93,	proves (Feature Report, Part I). Wenstrup,	real increase (C)
pp. 30-37 (correction) (L)	Robert A. (EP)Dec, p. 80	Research collaborations set a new pace for Euro-
Re: Vertical presses squeeze out savings, CE,	Productivity Capacitance redefining maintenance (figures).	pean R&D. Ondrey, Gerald (N)Aug, p. 43
11/93, p. 187 (correction) (L)	Petersen, David G. et al. (EP)Aug, p. 76	Radiation
Powders	Treating maintenance as a process. Zanetti.	Nuclear radiation sees it all. Brenner, Raul (EP)
G force replaces solvents in a powder-coating	Richard (Ed)Aug, p. 5	Aug, p. 118
process (C)Jan, p. 15	Profitability	Radioisotopes U.S. paper industry sets a new goal for recycling
Laser-based prototyping system makes molds	Online analysis primes CPI profits. Fouhy, Ken	its products (C)
from metals (C) Dec '93, p. 17	(N)Mar, p. 37	Reactors
Tiny particles aim for big markets. Samdani,	Steam-powered pumps improve condensate ser-	Don't overlook static-mixer reactors (Feature Re-
Gulam, et al. (N)	vice (PN)	port, Part 2 of 2, figures). Rogers, James A. &
Power Generation Biomass gasification produces renewable fuel for	Superfund, round two: natural resource damages. Denham, Jr., V. Robert (EM)Dec, p. 123	Streiff, F.A. (EP)June, p. 76
power generation (C)Nov, p. 19	Which project is best? (figures, tables). Ward,	Hydrodesulfurization process offers a quantum
Fluidized zinc titanate captures sulfur from hot	Thomas J. (EP)	(C)Dec '93, p. 21
coal gas (C)Feb, p. 23	Pulp Mills	Reactor provides controlled conditions for
Hot-gas sweetening improves integrated gasifica-	Activated hydrogen peroxide delignifies and	biosolids treatment (C)Feb, p. 21
tion combined-cycle (IGCC) efficiency (C)	bleaches pulp (C)Aug, p. 19	Advanced materials technology is key to spent
Feb, p. 19	Evaporator cuts pulp-mill water consumption (C).	HCL recovery (C)
Japan finds more-efficient power generation the	Pumps Apr, p. 25	Catalysis and UV light: Vying for VOC destruc-
key to cutting carbon dioxide. Moore, Stephen	Bushing design prevents shaft deflection in gear	tion (C)Feb, p. 21
(N)Aug, p. 45	pumps (C)	Chromatography reclaims precious metals from
Pressure Instruments	Charting NPSH values of pumps. Durand, Ale-	waste streams (C)Feb, p. 17
Take pressure sensing to new levels (Feature Re- port, Part II). Nishikawa, Tadashi, et al. (EP)	jandro AnayaAug, p. 139	Continuous route sports high Hg recovery at low
Dec, p. 86	Hermetically sealed pump promises zero leakage.	cost (C)
Pressure Vessels	Zanetti, Richard (N)June, p. 46	Dry route recovers Hg from incinerator emissions
Proper interface design for pressure vessels.	How and why centrifugal pumps continue to fail.	(C)
Stikvoort, Walther J. (PN)June, p. 133	Bloch, Heinz P. (EP)Nov, p. 122	dross (C)
Process Control	Keep the pump – can the motor (PN).Nov, p. 147 Maximize centrifugal-pump reliability (Part 1,	Electrical heating of sorbent recovers adsorbed
Automate batching in a multi-product facility.	figures). Clark, Edward A. & Littlefield,	methyl bromide for reuse (C)Oct, p. 21
Dayvolt, Bradley H. & Symonds, F. Peter	David (EP)Feb, p. 90	Evaporative cooling is key to enhanced recovery
(PN)July, p. 151	Mechanical seals satisfy new emission standards	of BTEX (C)Dec '93, p. 25
Automate bulk-solids delivery with feedback con-	(C)Apr, p. 17	Horizontal piping grid speeds site cleanup
trol (figures). Wilson, David H. (EP)	Pump suppliers pump up service (F) .Aug, p. 101	Nov EE Supp, p. 24
Aug, p. 87 Electronic "nose" smells its way to online process	Pumps: The seal saga continues (F)Mar, p. 103	Keeping a lid on volatile liquids (figures). Giffin,
control (C)	Re: Gear pump eliminates rotor-to-rotor contact,	Gary LFeb, p. 147 Microbes go for the gold in sulfide ores (C)
For optimum control: modify the process, not the	CE, 2/94, p. 76D-1 (76I-2) (correction) (L)	May, p. 21
controls (figures, Part 1). Ziegler, J.G. & Con-	Recirculation sheds its villainous image (figures).	Oxygen furnace produces benign wastes in dross
nell, J.R. (EP)	Ziegler, J.G. & Connell, J.R. (EP)	processing (C)June, p. 25
For optimum control: Modify your process (Part 2,	July, p. 118	Polymer recovers uranium from wastewater (C)
figures). Ziegler, J.G. & Connell, J.R. (EP)	Rotary-lobe pumps move sensitive fluids gently	Feb, p. 23
July, p. 107	(PN)Jan, p. 127	Porous resin selectively recovers metals from
Getting the most from advanced process control	Steam-powered pumps improve condensate ser-	aqueous streams (C)Sept, p. 31
(figures). Anderson, Jim, et al. (EP)	vice (PN)Nov, p. 145	Recovering metals from wastes. Parkinson, Ger-
Letter May p 8	Vibration monitoring cuts mag-pump mainte-	ald, et al. (N)

Removing the carbon residue turns coal ash into	Don't get caught short on storage-tank rules (fig-	Safety is integral (Re: Clearing the hurdles:
an asset (C) Dec '93, p. 19	ures, tables). Myers, Philip E. & Ferry,	Process scaleup, CE, 11/93, pp. 98-114) (cor-
Spinning wheels (Re: Road to recycling, CE,	Robert LFeb EE Supp, p. 10	rection) (L)Jan, p. 8
10/93, p. 8) (postscript) (L)	EPA finds Mexican and U.S. environmental regu-	Use nitrogen to boost plant safety and product
Sulfur production continues to rise (figures).	lations are "on par". Parkinson, Gerald (N)	quality (figures, tables). Laut, Philippe B. &
Parkinson, Gerald, et al. (N)June, p. 30	Feb, p. 44	Johnstone, David W. (EP)June, p. 96
		Salaries
- Letter	EPA reaches out to state agencies to harmonize	
Sulfur recovery method is a 'hot' process (C)	pesticide regulations (C)Mar, p. 29	1994 salary survey: Waiting for good news. Kim,
Sept, p. 29	EPA rule aims to cut emissions at local incinera-	IreneDec, p. 113
Twist in solubility behavior helps recover car-	tors (C)Nov, p. 29	Chemical engineers ride out the storm (tables).
boxylic acids (C)Feb, p. 23	New enhanced-emissions-monitoring rule re-	Kim, Irene, et al. (N)June, p. 37
Two Claus technologies improve sulfur recovery	mains unsettled. Fadopé, Cece (N) Dec, p. 42	- LetterAug, p. 8
(C)Apr, p. 25	New regulations prime Japan's remediation busi-	Engineers' salaries finally beat inflation in the
U.S. paper industry preps for a strong growth in	ness. Moore, Stephen (N)Feb, p. 50	U.S. (C)Sept, p. 23
recycling (C)June, p. 19	NOx reduction on the front burner. Shelley,	Salvage
Recycling	Suzanne (Ed)Nov EE Supp, p. 3	Electro-osmotic "lasagna" process cleans up con-
Bouncing retreads (Re: Cryogenic process to recy-	Performing environmental audits; An engineer's	taminated soils (C)Feb, p. 17
cle tires boasts 97% recovery, CE, 6/93, p. 21)	guide. Morelli, Janis A. (EP)Feb, p. 104	- LetterJuly, p. 8
(L)July, p. 10	- LetterMay, p. 8	Scrubbers
- LetterSept, p. 8	Punishing polluters: no easy task. Shelley,	Alkaline solution destroys chlorinated air-pollu-
Controlled pyrolysis turns tires into oil, steel and	Suzanne (Ed)June EE Supp, p. 3	tants (C)Oct, p. 23
carbon black (C)Jan, p. 21	Put strategic planning into permit development.	Multiple-rib geometry is key to this tower-pack-
Greenpeace blasts waste projects in the Philip-	(Ed)Sept EE Supp, p. 3	ing's efficiency (C)Sept, p. 31
pines. Ronquillo, Bernardino (N)Aug, p. 46	Sniff out leaks. Ondrey, Gerald (N)Feb, p. 39	Sulfur dioxide scrubber produces no wastewater
Incinerators vs. cement kilns: Vying for rules har-	Remediation	and cuts solid wastes (C)Aug, p. 17
monization (C)Jan, p. 25		Sealants
	Adapting ozonation for soil and groundwater	Reinventing the wheel? (Re: Hydrotreatment up-
Leaching with cyanide recovers platinum from	cleanup. Nelson, Christopher H. & Brown,	
scrap catalytic converters (C)July, p. 21	Richard ANov EE Supp, p. 18	grades waste lube oils, CE, 8/93, p. 23) (cor-
Nanofiltration joins electrodialysis in recycling	In situ vitrification gains ground in soil treatment	rection) (L)Jan, p. 8
pulp-bleaching effluent (C)May, p. 21	Nov EE Supp, p. 26	Waste-dump liner seals its own leaks (C)
New technology takes aim at aluminum process-	New regulations prime Japan's remediation busi-	May, p. 21
ing waste. Parkinson, Gerald (N) May, p. 44	ness. Moore, Stephen (N)Feb, p. 50	Seals
- LetterJuly, p. 8	Occidental agrees to pay millions for the cleanup	Hermetically sealed pump promises zero leakage.
PET monomer recycling becomes viable even on a	of Love Canal (C)Aug, p. 27	Zanetti, Richard (N)June, p. 46
small scale (C)	Remote soil-assay method goes nuclear (C)	Mechanical seals satisfy new emission standards
Post-consumer plastics may make feedstocks for a		(C)
coking unit (C)Jan, p. 19	Mar, p. 19	Now we're sealing with gas (F)Nov, p. 103
Pump up your energy savings (figures). Power,	Salvaging Superfund. Zanetti, Richard (Ed)	
	June, p. 5	Pumps: The seal saga continues (F)Mar, p. 103
Robert B. (EP)	Superfund, round two: natural resource damages.	Semiconductors
- CorrectionMar, p. 10	Denham, Jr., V. Robert (EM)Dec, p. 123	Sorption-based gas delivery system prevents acci-
Recovering metals from wastes. Parkinson, Ger-	Retrofits	dental release (C)Feb, p. 17
ald, et al. (N)	Solvents: Know your options (figures). Anderson,	Sensors
- CorrectionJune, p. 10	Jim, et al. (EP)	Electronic "nose" smells its way to online process
Recycling offgas increases yields of maleic anhy-	- PostscriptMay, p. 10	control (C)
dride (C)Apr, p. 23	Rubber Products	Learn how to listen to your equipment (F)
Russia defuses a toxic time bomb. Kim, Irene &		Nov, p. 127
Litovkin, Victor (N)Oct, p. 32	Bouncing retreads (Re: Cryogenic process to recy-	Look at your process non-invasively (figures, ta-
Spinning wheels (Re: Road to recycling, CE,	cle tires boasts 97% recovery, CE, 6/93, p. 21)	
	(L)July, p. 10	bles). Jean, Randall & Boyes, Jr., Walt (EP)
10/93, p. 8) (postscript) (L)	- LetterSept, p. 8	June, p. 84
U.S. paper industry preps for a strong growth in	Russia	Nuclear radiation sees it all. Brenner, Raul (EP)
recycling (C)June, p. 19	Russia defuses a toxic time bomb. Kim, Irene &	Aug, p. 118
U.S. paper industry sets a new goal for recycling	Litovkin, Victor (N)Oct, p. 32	Sensors: Your link to process control (F)
its products (C)Feb, p. 19	, , , , , , , , , , , , , , , , , , , ,	July, p. 97
Reduction		Silicon carbide makes the grade for high-temper-
Catalytic route to aromatic amines boasts better	S	ature sensors (C)June, p. 19
selectivity (C)Jan, p. 21		Take pressure sensing to new levels (Feature Re-
Gas-phase chemical reduction offers an alterna-	Safety	port, Part II). Nishikawa, Tadashi, et al. (EP).
tive to incineration (C)Jan, p. 15	Automatic steam-load shedding cuts costs. May,	Dec, p. 86
How to make H ₂ and sulfur from H ₂ S (C)	Donald L	Separation Separation
	Dust collector venting, don't take chances (fig-	
Nov, p. 19	ures, tables). Black, Gregory J. (EP)	Adsorption holds its own. Basta, Nicholas, et al.
Understanding Oxidation Reduction Potential		(N)Nov, p. 39
systems (figures). McPherson, Lori	Feb, p. 128	Chevron and IFP demonstrate a new aromatic
Mar, p. 143	- Letter	separations process. Fouhy, Ken & Parkin-
Regulations	Europe promulgates amendment to "Seveso Di-	son, Gerald (N)Apr, p. 50
Another way to tackle wastewater volatiles (Re:	rective" (C)Apr, p. 27	Diamond-structured packing cuts separation
Beware: Volatile emissions from wastewater	Forestall failures by nondestructive testing.	costs (C)Aug, p. 21
are regulated, too, EE Supp, 6/94, pp. 7-12)	Thielsch, Helmut & Cone, Florence M. (EP)	Effective design for absorption and stripping
Sept EE Supp, p. 6	Nov, p. 112	(Feature report, figures). McNulty, Kenneth
Avoiding criminal liabilities. Blattner, J. Wray &	ISO standardizes the format for safety data	J. (EP)
Bramble, Gary MJune, p. 127	sheets (C)	Enhance gas processing with reflux heat-ex-
Clarifying workplace standards (Re: Plant work-	Keeping CPI plants safe (F)May, p. 121	changers. Finn, Adrian J. (EP)May, p. 142
place standards tighten CF 11/02 and 45 40)	Poonging or bylong's sold toois Challa	Mambana avatama affar
place standards tighten, CE, 11/93, pp. 45-49) (correction) (L)Feb, p. 10	Reengineering ethylene's cold train. Shelley, Suzanne (N)Jan, p. 37	Membrane systems offer a new way to recover volatile organic air pollutants (Feature Re-

Port 2 of 2 tables from Simons	0-1-1	Protected October
port, Part 3 of 3, tables, figures). Simmons, Vicki, et al. (EP)Sept, p. 92	Soil cleanup: the best of all possible worlds. Chowdhury, Jayadev & Fouhy, Ken (N)	- PostscriptOct, p. 8
Pervaporation boosts efficiency even in tough sep-	Feb, p. 33	Steam handling: Pay attention to the condensate
aration jobs (C)July, p. 21	- LetterJuly, p. 10	(F)Aug, p. 123
Pervaporation find its niche. Shanley, Agnes, et	Steam removes mercury and dioxin from contam-	Vacuum upgrade cuts steam & water use. Sung,
al. (N)Sept, p. 34	inated soil (C)July, p. 23	Harry & Chong, Peter (PN)Aug, p. 143
Pervaporation technology: Fundamentals and en-	Two-stage heating removes mercury from conta-	Steam Traps
vironmental applications (Feature Report,	minated soil and process waste (C).Oct, p. 25	Get the most out of steam (figures). Hahn, Glenn
Part 2 of 3, figures). Barber, Terry A. & Miller, Brian D. (EP)Sept, p. 88	Solids Handling Automate bulk-solids delivery with feedback con-	E. (EP)Jan, p. 80
Porous resin selectively recovers metals from	trol (figures). Wilson, David H. (EP)	Steel
aqueous streams (C)Sept, p. 31	Aug, p. 87	Furnace converts dust and fines to stainless steel
Separation Equipment	Characterize bulk solids to ensure smooth flow	(C)Apr, p. 19
Re: Demystifying the selection of mist elimina-	(figures, tables). Carson, John W. &	Storage
tors, CE, 11/93, pp. 148-156 (correction) (L)	Marinelli, Joseph (EP)Apr, p. 78	U.S. petroleum industry wins a CAAA exemption
Sewage	Push toward better solids handling (F)	(C)Mar, p. 29
How to make ferblizer from phosphate effluent	Removing the uncertainty in selecting solids mix-	Storage Equipment
(C)Oct, p. 21	ers (Feature report). van den Burgh, Wim	Don't get caught short on storage-tank rules (fig-
Sewage sludge slashes costs in cement manufac-	(EP)	ures, tables). Myers, Philip E. & Ferry,
ture (C)July, p. 21	Solids Handling: The process industries'	Robert LFeb EE Supp, p. 10
Silicon	stepchild. Zanetti, Richard (Ed)Apr, p. 5	Pneumatic mixer eases cleanup of storage-tank
Carbene now has its inorganic counterpart in	Solvents	residues (C)Aug, p. 17
silylene (C)	Hydrogen peroxide may replace hazardous clean-	Sulfur
Putting a lid on the furnace slashes energy cost in silicon production (C)Oct, p. 23	ing solvents (C)	How to make H ₂ and sulfur from H ₂ S (C)
Silicon Chips	Jim, et al. (EP)	Nov, p. 19
Polyvinylidene fluoride chamber allows oxygen	- PostscriptMay, p. 10	Hydrodesulfurization process offers a quantum
removal from water to ultra low levels (C)	Twist in solubility behavior helps recover car-	(C) Dec '93, p. 21
Aug, p. 23	boxylic acids (C)Feb, p. 23	Sulfur production continues to rise (figures).
Simulation	South Africa	Parkinson, Gerald, et al. (N)June, p. 30
How to stay competitive. Zanetti, Richard (Ed)	India and South Africa plan to build a lignite	- LetterAug, p. 8
Pinpoint mixing problems with lasers and simu-	gasification unit. Siddiqi, Abdul-Rauf (N) Nov, p. 50	Sulfur recovery method is a 'hot' process (C)
lation software (Part 1, figures). Bakker,	Spectroscopy	Sept, p. 29
André, et al. (EP)Jan, p. 94	FTIR spectroscopy monitors polymer composition	Two Claus technologies improve sulfur recovery
Process simulation: The art and science of model-	online (C)	(C)Apr, p. 25
ling (Feature report, figures). Glasscock,	Microwave spectrometer measures composition	Why not? A reader asks (L)Dec, p. 8
David A. & Hale, John C. (EP)Nov, p. 82	online (C)	Superconductivity
Simulation of polymer processes leads to bottom-	Online analysis primes CPI profits. Fouhy, Ken	High-temperature superconductors. Ondrey, Ger-
line improvements (C)Sept, p. 23 Simulation on a supercomputer leads to substan-	(N)	ald (N)Jan, p. 43
tial savings (C)July, p. 17	hot fluegas (C)	Supercritical Fluids
- Letter	Spraying	New roles for supercritical fluids. Moore, Stephen
Supercomputer process simulation promises bet-	Consider plastic spray nozzles. Kohley, Bill	& Samdani, Gulam (N)Mar, p. 32
ter design of multiphase reactors (C)	Apr, p. 147	- CorrectionMay, p. 10
July, p. 17	Standards	- CorrectionSept, p. 8
Size Reduction Vibratory grinder combines comminution with	Again, a U.S. consortium seeks industrial-soft-	Supercritical fluid extraction plant faces a spicy
classification, and saves energy (C) Oct, p. 27	ware standardization (C)	future (N)June, p. 46
Sludge	Parkinson, Gerald & Zanetti, Richard (N)	Supercritical-water oxidation tackles chlorinated
Raking money from muck. Fouhy, Ken & Moore,	Nov, p. 44	organics (C)Dec '93, p. 17
Stephen (N)July, p. 33	Improve plant efficiency and meet environmental	Surface Engineering
Soils	rules (F)	Surfaces: More than they seem. Grinthal, Wayne,
Adapting ozonation for soil and groundwater cleanup. Nelson, Christopher H. & Brown,	ISO standardizes the format for safety data	et al. (N)
Richard ANov EE Supp, p. 18	sheets (C)Dec '93, p. 27 ISP and WorldFIP explore a joint fieldbus solu-	Surfactants
Biology boosts waste treatment. Fouhy, Ken &	tion (C)	Mild-mannered surfactants, Hairston, Deborah
Grinthal, Wayne (N)	New organization pushes batch control standards	July, p. 65
Feb, p. 30	(C)Apr, p. 21	Philippines projects are slated in petrochemical
Cleaning up soil-bound VOCs (PN)Feb, p. 153	Putting the CAD puzzle together Sept, p. 169	and oleochemicals (N)Nov, p. 50
Electro-osmotic "lasagna" process cleans up cont-	Superfund bill would revise chemical standards.	Switzerland
aminated soil (C)	Scarlett, Tom (N)Mar, p. 50	Catalytic route to aromatic amines boasts better
Extraction route slashes cost of treating contami-	Absorption-heat transformer curbs steam re-	selectivity (C)Jan, p. 21
nated soil (C)Dec '93, p. 21	quirements (C)July, p. 19	Synfuels
Fungi crack chlorinated organics in soil cleanup	Automatic steam-load shedding cuts costs. May,	Fluegas desulfurization produces salable fertil-
(C)May, p. 23	Donald L	izer (C)June, p. 21
Horizontal piping grid speeds site cleanup	Get the most out of steam (figures). Hahn, Glenn	Synthesis
Nov EE Supp, p. 24	E. (EP)	Carbene now has its inorganic counterpart in
In situ vitrification gains ground in soil treatmentNov EE Supp, p. 26	Novel column internals boost stripping efficiency (PN)	silylene (C)
Remote soil-assay method goes nuclear (C)	Simple equation for steam quality. Liley, Peter E.	Direct route to polyactic acid offers a more versa-
Mar, p. 19	Aug, p. 140	tile product (C)Oct, p. 25

	Supercritical-water oxidation destroys chemical weapons (C)July, p. 25	Hydrogen peroxide: A potent force to destroy or- ganics in wastewater (tables, figures). Plant,
Tanks	Superfund bill would revise chemical standards.	Lysette & Jeff, Martin .Sept EE Supp, p. 16
Don't get caught short on storage-tank rules (fig-	Scarlett, Tom (N)Mar, p. 50	This photocatalytic system zaps VOCs (C)
ures, tables). Myers, Philip E. & Ferry,	Toxic air emissions: What is the full cost to your	Oct, p. 27
Robert LFeb EE Supp, p. 10	business? (figures, tables). Dyer, James A. &	UV light knocks out NOx from fluegas (C)
Tar	Mulholland, Kenneth (EP)Feb EE Supp, p. 4	UV-dissociation of CFCs hits the road (C)
Portable mixer fluidizes tar-like residue (PN) Sept, p. 165	- CorrectionJune EE Supp, p. 5	Apr, p. 21
Technology	Toxics are to get 'equal treatment' under pro-	United States Senate
Chemical engineering innovation shines at Cali-	posed rules from EPA (C)Dec '93, p. 27	U.S. Senate's new majority may change environ-
fornia AIChE meeting. Parkinson, Gerald (N).	U.S. industry is putting a lid on toxic releases into the environment (C)	mental agenda. Fadopé, Cece (N)Dec, p. 40 Utilities
Reward: \$1 million for a technology to recover	Trade	Automatic steam-load shedding cuts costs. May,
ammonia from wastewater (C)Sept, p. 27	As Bhopal decennial nears, environmental ac-	Donald L
Technology lifts the VOC cloud. Basta, Nicholas (N)Mar, p. 43	tivism surges in India. Siddiqi, Abdul-Rauf (N)Nov, p. 46	Energy efficiency can benefit utilities and cus- tomers alike (C)
Testbed for environmental technologies gets the green light (C)Aug, p. 19	CFC 'black market' is targeted for concerted crackdown (C)Nov, p. 29	w
This cheaper route to fluorobenzene boasts high	CPI engineers build new connections. Parkinson,	V
yield (C)Nov, p. 21	Gerald, et al. (N)	Vacuum
Vietnam comes out of isolation. Moore, Stephen &	Labor groups accuse U.S. firms of illegally firing	Vacuum upgrade cuts steam & water use. Sung,
Shanley, Agnes (N)Sept, p. 45	Mexican workers. Shanley, Agnes (N)	Harry & Chong, Peter (PN)Aug, p. 143
Technology Transfer	Nafta passage bodes well for the U.S. and Mexico	Valves
Technology transfer may reduce industrywide valve emissions (C)	(C) Dec '93, p. 25	For optimum control: Modify your process (Part 2,
East Bloc technology: Seek innovation and ye	Pakistan protests an imported Danish chloralkali	figures). Ziegler, J.G. & Connell, J.R. (EP)
shall find it. Ondrey, Gerald & Moore,	plant. Siddiqi, Abdul-Rauf (N)Dec, p. 48	Forestalling valve leaks pays off (F)Dec, p. 107
Stephen (N)Sept, p. 39	U.S. chemical industry forecasts better times in	Packing improvements in valves lead to substan-
Temperature Instruments	1994 (C) Dec '93, p. 27	tial savings (C)
Intrinsic vs. extrinsic (Re: Accuracy in tempera-	Trade Shows	Putting expert systems to work (tables, figures).
ture mesurements, CE, 12/93, pp. 84-87) (cor-	Achema 1994	Hingoraney, RajanJan, p. 121
rection) (L)Feb, p. 8	local trade grows. Chowdhury, Jayadev, et al.	Re: New Products & Services, CE, 11/93, p.96D-
Testing Forestall failures by nondestructive testing.	(N)Aug, p. 41	44, 96I-26 (correction) (L)Jan, p. 8
Thielsch, Helmut & Cone, Florence M. (EP)	Globalization and greening of Achema (N)	Technology transfer may reduce industrywide valve emissions (C)June, p. 19
Thermodynamics	Preview: Powder & Bulk SolidsApr, p. 75	Trim the total cost of valve ownership (tables, fig-
How to estimate thermodynamic values over the	Spring ISA show; Interphex ShowMar, p. 75 Transmitters	ures). Bodle, James ASept EE Supp, p. 8 Valve users demand proof of performance (F)
V-L interphase. Carroll, John JNov, p. 143	Getting the most from advanced process control	June, p. 113
Bouncing retreads (Re: Cryogenic process to recy-	(figures). Anderson, Jim, et al. (EP)	Vibration Vibration monitoring cuts mag-pump mainte-
cle tires boasts 97% recovery, CE, 6/93, p. 21)	Mar, p. 78	nance (C)
(L)July, p. 10	- LetterMay, p. 8	Vietnam
- LetterSept, p. 8	Transportation	Vietnam comes out of isolation. Moore, Stephen &
How to turn burned tires into activated carbon	Onsite production eliminates the hazards of transporting CO (C)Sept, p. 21	Shanley, Agnes (N)Sept, p. 45
(C)June, p. 17	Sorption-based gas delivery system prevents acci-	Viscosity
Spinning wheels (Re: Road to recycling, CE, 10/93, p. 8) (postscript) (L)Apr, p. 8	dental release (C)Feb, p. 17	Calculate viscosities for 355 liquids. Yaws, Carl L., et al. (EP)
Titanium Titanium dioxide producers whiten their ways.	Re: New Products & Services, CE, 10/93, p.80D-	Vitrification
Shelley, Suzanne, et al	22 (correction) (L)	Horizontal piping grid speeds site cleanup
- Correction May, p. 10	Turbines	In situ vitrification gains ground in soil treatment
Toxics	Burning fuel in stages reduces NOx formation (C)	Nov EE Supp, p. 26
Chelated iron helps microbes destroy tough toxics	NOv piving corphystor clopps up ograporation	Induction furnace vitrifies flyash at a reduced
in groundwater (C)Aug, p. 25	NOx-nixing combustor cleans up cogeneration turbines (C)	cost (C)Nov, p. 19
Dow tops a scoreboard on environmental report- ing (C)	turbiles (c)	Sludge vitrification needs no fuel (C)Apr, p. 19 VOCs (Volatile Organic Compounds)
EPA adds new chemicals to the Toxic Release Inventory (C)Feb, p. 27	U	Another way to tackle wastewater volatiles (Re: Beware: Volatile emissions from wastewater
EPA's proposed rule would target toxic refinery	United Kingdom	are regulated, too, EE Supp, 6/94, pp. 7-12)
emissions (N)Aug, p. 46 Hydrogen peroxide may replace hazardous clean-	Fungi crack chlorinated organics in soil cleanup (C)	Catalysis and UV light: Vying for VOC destruc-
ing solvents (C)Nov, p. 23	Packing improvements in valves lead to substan-	tion (C)Feb, p. 21
Industry moves to exempt sensitive information from U.S. Toxic Substances Control Act re-	tial savings (C)	Cleaning up soil-bound VOCs (PN)Feb, p. 153
porting (N)	valve emissions (C)June, p. 19	Electron beam wipes out VOCs (C)Feb, p. 25 EPA tightens control over VOC emissions from
Milling destroys PCBs and other chlorinated or-	Ultrasonics	new facilities (C)Oct, p. 29
ganics (C)	Ultrasound rids beer of small particles (C)	Extend the life of pollution-control catalysts (fig-
Russia defuses a toxic time bomb. Kim, Irene &	Mar, p. 27	ures). Bar Ilan, Armiram, et al
Litovkin, Victor (N)Oct, p. 32	Ultraviolet	Sept EE Supp, p. 22
Salvaging Superfund. Zanetti, Richard (Ed)	Catalysis and UV light: Vying for VOC destruc-	Mechanical seals satisfy new emission standards
June, p. 5	tion (C)Feb, p. 21	(C)Apr, p. 17

Membrane systems offer a new way to recover volatile organic air pollutants (Feature Re-	Salvaging Superfund. Zanetti, Richard (Ed)	Slurry carbonization is the key to turning MSW into high-energy fuel (C)
port, Part 3 of 3, tables, figures). Simmons,	Titanium dioxide producers whiten their ways.	Solid fuel, made from waste paper, cuts energy
Vicki, et al. (EP)Sept, p. 92	Shelley, Suzanne, et alMar, p. 69	costs and SOx emissions (C)June, p. 25
Membranes recover VGCs from gas streams (C) Jan, p. 17	Toxics are to get 'equal treatment' under pro- posed rules from EPA (C)Dec '93, p. 27	Turn inorganic waste into useful products
Prevent spontaneous combustion during vapor control (PN)Dec, p. 127	Waste-dump liner seals its own leaks (C)	Zero-discharge process "coalifies" distillery wastes, generates energy (C)July, p. 17
Proven process of carbon adsorption (Feature Report, Part 3 of 3). Sorrento, Louis (EP)	Waste Management Level measurement is more accurate on contact	Wastewater Treatment Another way to tackle wastewater volatiles (Re:
Technology lifts the VOC cloud. Basta, Nicholas	(PN) Mar, p. 157 Level measurement is more accurate on contact (PN) Apr, p. 155	Beware: Volatile emissions from wastewater are regulated, too, EE Supp, 6/94, pp. 7-12)
(N)	Methane recovery from landfills is growing again in the U.S. (C)	Continuous route sports high Hg recovery at low cost (C)
Volatile emissions from wastewater are regu- lated, too. Jagiella, Thomas C. & Klickman, Matthew W. (EP)June EE Supp, p. 7	New caprolactam process cuts sulfate wastes (C)	Firmer foothold for Mexico's environmental strategy. Parkinson, Gerald & Chowdhury, Jay (N)
w	prevention: reinventing compliance, CE, 11/93, pp. 30-43) (postscript) (L)Feb, p. 8	How to manage a complex wastewater system (PN)
AA .	Remote soil-assay method goes nuclear (C)	Insitu oxygenator improves wastewater treat-
Waste	Sulfur dioxide scrubber produces no wastewater	mentSept EE Supp, p. 26
New roles for supercritical fluids. Moore, Stephen, et al. (N)	and cuts solid wastes (C)	Jump starting nature in wastewater treatment (F)
- CorrectionMay, p. 10	green light (C)Aug, p. 19	Membranes enhance extraction of organic pollu- tants from wastewater (C)
- CorrectionSept, p. 8 Waste (Hazardous)	Waste Treatment	Methane injection cuts NOx in municipal solid-
As Bhopal decennial nears, environmental ac-	Bacteria have the gas for metals cleanup (C)	waste combustors (C)Aug, p. 23
tivism surges in India. Siddiqi, Abdul-Rauf	Biology boosts waste treatment. Fouhy, Ken,	New polyelectrolyte provides both coagulation
(N)Nov, p. 46	Grinthal, Wayne & Chowdhury, Jayadev (N)	and flocculation (C)
Ash, slurry and hazwaste are all feed for the glas- sifier (C)Sept, p. 25	Electron beam wipes out VOCs (C)Feb, p. 25	Pervaporation find its niche. Shanley, Agnes, et al. (N)
Audit your environmental contractors. LaRusso,	Greenhouse gas and spent caustic joins forces to	Po*ww*er treatment of liquid wastes slashes solids formation (C)
Anthony	treat sewage (C)Sept, p. 23	Polymer recovers uranium from wastewater (C)
Battery destroys liquid organic wastes (C)	Incinerators and cement kilns face off. Kim,	Feb, p. 23
EPA allows more hazwaste for testing of new technologies (C)	Irene (N)	Reverse osmosis tackles tough water-cleanup problems (C)July, p. 23
Growing cost of cleanup. Zanetti, Richard (Ed)	ment (figures, tables). Shahani, Goutam H., et al	Steady state model for aerobic biological treat- ment. McHarg, William H. (PN)Mar, p. 153
Ice barrier provides effective containment of un- derground wastes (C)Aug, p. 23	Liquid emulsion recovers copper from waste streams (C)	Supercritical-water oxidation tackles chlorinated organics (C)
Incineration: turning up the heat on hazardous waste. Fouhy, Ken & Ondrey, Gerald (N)	New technology takes aim at aluminum process- ing waste. Parkinson, Gerald (N)May, p. 44	U.S. technology will help clean up Manila's Pasig River. Ronquillo, Bernardino (N)Oct, p. 52 Water Management
May, p. 39 - LetterAug, p. 10	- LetterJuly, p. 8 Reactor provides controlled conditions for	Vacuum upgrade cuts steam & water use. Sung,
Incinerator risk assessments: change is in the air. Smith, Douglas, et al. (EP)	biosolids treatment (C)Feb, p. 21 Sludge vitrification needs no fuel (C)Apr, p. 19	Harry & Chong, Peter (PN)Aug, p. 143 Volatile emissions from wastewater are regu-
June EE Supp, p. 26 Kodak pays millions for RCRA violations (C)	Waste Treatment Equipment Pulsed operation shaves fuel consumption in	lated, too. Jagiella, Thomas C. & Klickman, Matthew W. (EP)June EE Supp, p. 7
Nov, p. 29	thermal processes (C)Mar, p. 19	Water Pollution
More bureaucratic boondoggling (Re: U.S. site cleanups: A new approach, CE, 4/93, pp. 30-	Waste Utilization Absorption-heat transformer curbs steam re-	Adapting ozonation for soil and groundwater cleanup. Nelson, Christopher H. & Brown, Richard A
37 (postscript) (L)Oct, p. 8 Salvaging Superfund. Zanetti, Richard (Ed)	quirements (C)July, p. 19	U.S. may relax its water-pollution laws (C)
June, p. 5	Gas-phase chemical reduction offers an alterna- tive to incineration (C)Jan, p. 15	June, p. 27
Waste Disposal	How to convert waste wood into polystyrene-like	- LetterAug, p. 10
Glassy slag from this incinerator is easy to land- fill (C)	foam (C)Sept, p. 21 How to make fertilizer from phosphate effluent	Water Pollution Control Equipment Hydrogen peroxide: A potent force to destroy or-
Induction furnace vitrifies flyash at a reduced cost (C)	(C)Oct, p. 21 Mechanical friction converts plastics waste into	ganics in wastewater (tables, figures). Plant, Lysette & Jeff, Martin .Sept EE Supp, p. 16
Keep control valves in working order (Part 2, fig- ures). Bresler, Dana & Rodda, James R. (EP)	thermoplastics (C)June, p. 25 Recovering metals from wastes. Parkinson, Ger-	Membranes recover chlorinated hydrocarbons from contaminated water (C)Jan, p. 17 Water Supply
Occidental agrees to pay millions for the cleanup of Love Canal (C)	ald, et al. (N)	EPA proposes tougher standards for disinfection byproducts in water (C)July, p. 27
Ocean dumping permit revoked in Pakistan. Siddiqi, Abdul-Rauf (N)	grades waste lube oils, CE, 8/93, p. 23) (correction) (L)	Water Treatment Air bubbles clarify water and dewater sludge, (C).
Pyrolysis of polyvinyl chloride produces benzene,	Removing the carbon residue turns coal ash into	June, p. 19
toluene and xylenes fuel (C)June, p. 21	an asset (C) Dec '93, p. 19	- LetterAug, p. 10
Raking money from muck. Fouhy, Ken & Moore, Stephen (N)July, p. 33	Reward: \$1 million for a technology to recover ammonia from wastewater (C)Sept, p. 27	Demystifying water treatment. Hairston, DeborahSept, p. 71

port, Part 2 of 3, figures). Comb, Lee F. (EP)	AUTHOR INDEX	Baggett, John, of Union Camp CorpJan, p. 65 Brenner, Raul
	Anderson, Jim, et al. Getting the most from advanced process control (figures)Mar, p. 78	Nuclear radiation sees it allAug, p. 118 Bresier, Dana & Rodda, James R. Keep control valves in working order (Part 2, fig-
romoval from water to ultra low levels (C)	В	ures)
Remote services boast online water treatment (F).	Bakker, André, et al.	Aug, p. 145
J.S. may relax its water-pollution laws (C)	Computerizing the steps of mixer selection (figures)	Brown, Richard A. & Leahy, Maureen C. Bioremediation: optimizing results (figures)
- LetterAug, p. 10	How to dispense gases in liquidsDec, p. 98 Pinpoint mixing problems with lasers and simu-	Brown, Richard A. & Nelson, Christopher H.
minated soil and process waste (C).Oct, p. 25	lation software (figures)Jan, p. 94 Bar llan, Armiram, et al. Extend the life of pollution-control catalysts (fig-	Adapting ozonation for soil and groundwater cleanup
Nood Preserving Cleaner route to "harden" soft wood (C)	ures)Sept EE Supp, p. 22 Barber, Terry A. & Miller, Brian D.	Get the most ouf of plastic lined pipe (figures, tables)
Workstations	Pervaporation technology: Fundamentals and en- vironmental applications (Feature Report,	•
Hardware and software solutions simplify acquisition by PCs and laptops. Grinthal, Wayne	Part 2 of 3, figures)Sept, p. 88 Barlog, Roman (Ray) J. & Ginn, Dana K.	Carroli, John J.
Workstations provide a failsafe operator interface (PN)	Reduce project-cycle time (figures)July, p. 133 Bartholomew, Calvin H. & Hecker, William C. Catalytic reactor design (Feature Report, Part 1	How to estimate thermodynamic values over the V-L interphase
Y	of 2)June, p. 70 Basta, Nicholas	Characterize bulk solids to ensure smooth flow (figures, tables)
You & Your Job	Controller software gains usefulness.	Cartwright, Peter
1994 salary survey: Waiting for good news. Kim, Irene	Environmental and business goals needn't be in conflict	Membranes meet new environmental challenges (Feature Report, Part 1 of 3, tables, figures)
01 seminar basics. Ganapathy, VAug, p. 133	Equipment-sizing software adds to engineers'	Chong, Peter & Sung, Harry
Becoming a successful consultant. Kuby, Thomas	toolkitsDec, p. 131	Vacuum upgrade cuts steam & water use
EOct, p. 165 CorrectionDec, p. 8	Maintenance management goes multimedia (fig- ures)Aug, p. 151	Chopey, Nicholas P.
Being a good neighbor. Wilson, Steve	Moving plant data on the bus	Showing new Ch.E.s the real worldSept, p. 5 Chowdhury, Jayadev
Getting along with the press. Vande Vrede, Linda BJan, p. 115	Technology lifts the VOC cloudMar, p. 43 Basta, Nick & Fouhy, Ken	Free pass to the world's databasesJuly, p. 5 Reengineering: beyond TQMDec, p. 35
Put yourself in someone else's shoes. Boyd, Stephen D	Engineers monitor trends at Chemputers II	Chowdhury, Jayadev & Fouhy, Ken Soil cleanup: The best of all worlds?Feb, p. 33
Reduce project-cycle time (figures). Barlog, Roman (Ray) J. & Ginn, Dana K.July, p. 133	Basta, Nicholas, et al. Adsorption holds its ownNov, p. 39	Chowdhury, Jayadev & Ondrey, Gerald Cleanup goes high techJuly, p. 39
Surving shiftwork. Richey, PrestonSept, p. 149 Technical audits find crucial clues. McCracken, Philip GMay, p. 161	Coal slurries: an environmental bonus?	Chowdhury, Jayadev & Parkinson, Gerald Firmer foothold for Mexico's environmental strat-
Tell your company story with video. Fischer, Ker-	Black, Gregory J. Dust collector venting, don't take chances (fig-	egyJune, p. 44 Chowdhury, Jayadev, et al.
win & King, Andrea	ures, tables)Feb, p. 128 Blattner, J. Wray & Bramble, Gary M.	CPI expos are planned for India and China, as local trade grows
The PE exam: Study for success. Currieo, Royce EFeb, p. 143	Avoiding criminal liabilitiesJune, p. 127 Bloch, Heinz P.	Ciliberti, V. Anthony Ranking equipment criticality (tables)
Jse contractors effectively. Harding, Jeffrey S Nov, p. 137	How and why centrifugal pumps continue to fail	Clark, Edward A. & Littlefield, David
7	Bodle, James A. Trim the total cost of valve ownership. (tables,	Maximize centrifugal-pump reliability (Part 1, figures)
	figures)Sept EE Supp, p. 8	Collins, W. Michael & Terhune, Keith B.
Zeolites Adsorption holds its own. Basta, Nicholas, et al.	Book, Neil L., et al. Road to a common byteSept, p. 98	Model solution for tracking pollution (figures) June EE Supp, p. 32
(N)	Boyd, Stephen D. Put yourself in someone else's shoesMar, p. 139 Boyes, Jr., Walt & Jean, Randall	Going forward with reverse osmosis (Feature Report, Part 2 of 3, figures)July, p. 90
pp. 28-31) (correction) (L)Mar, p. 10	Look at your process non-invasively (figures, ta-	Cone, Florence M. & Thielsch, Helmut
Zeolite bed cuts soot and NO emissions from diesel engines (C)Dec '93, p. 25	bles)June, p. 84 Bramble, Gary M. & Blattner, J. Wray	Forestall failures by nondestructive testing
Zeolite cleans ups nuclear waste (C)Nov, p. 27 Zeolite crystals grown in situ make dust-free	Avoiding criminal liabilitiesJune, p. 127 Brandstatter, A.L. & Sawatzki, Howard	For optimum control: modify the process, not the
deNOx catalyst (C)Nov, p. 21 Zeolites capture mercury and dioxins from incin-	Hot tips to rejuvenate old boilers. (figures)	controls (figures, Part 1)

Recirculation sheds its villainous image (figures)	Fouhy, Ken & Grinthal, Wayne	Hecker, William C. & Bartholomew, Calvin H.
July, p. 118	Biology boosts waste treatmentFeb, p. 30	Catalytic reactor design (Feature Report, Part 1
Corpstein, Robert R., et al.	Fouhy, Ken & Moore, Stephen	of 2)June, p. 70
The high-efficiency road to liquid-solid agitation.	Raking money from muckJuly, p. 33	Henthom, Gregory V. & Buxton, L. William
(figures)Oct, p. 138	Fouhy, Ken & Ondrey, Gerald	Get the most ouf of plastic lined pipe. (figures, ta-
Currieo, Royce E.	Incineration: turning up the heat on hazardous	bles)Sept, p. 133
The PE exam: study for successFeb, p. 143	Fouhy, Ken & Parkinson, Gerald	Higgins, Thomas & Thom, James
_	Chevron and IFP demonstrate a new aromatic	Solvents: Know your options (Feature Report, fig-
D	separations process	ures)
	Fouhy, Ken & Shelley, Suzanne	- Postscript
Dayvolt, Bradley H. & Symonds, F. Peter	Drive for cleaner-burning fuelJan, p. 61	Hingoraney, Rajan
Automate batching in a multi-product facility	- CorrectionApr, p. 10	Putting expert systems to work (tables, figures)
July, p. 151	Fultz, Benjamin S., et al.	Jan, p. 121
DeLoggio, Theodore J. & Letki, Alan G.	Take the guesswork out of plastics selection. (ta-	
New directions in centrifuging (tables, figures)	bles, figures)Oct, p. 84	
Jan, p. 70		
Denham, Jr., V. Robert	C	Isom, Christopher & Rogers, James
Superfund, round two: natural resource damages.	G	Sour-gas treatment gets more flexible
Dec, p. 123	Ganapathy, V.	July, p. 147
Ion exchange deal (Feature Report, Part 1 of 3,	101 seminar basics	
	Giffin, Gary L.	J
figures)July, p. 86 Dunn, Joe & Morris, Jerry	Keeping a lid on volatile liquids (figures)	
Networking puts new eyes on the process (fig-	Feb, p. 147	Jagiella, Thomas C. & Klickman, Matthew W.
ures)	Ginn, Dana K. & Barlog, Roman (Ray) J.	Volatile emissions from wastewater are regu-
Durand, Alejandro Anaya	Reduce project-cycle time (figures)July, p. 133	lated, tooJune EE Supp, p. 7
Charting NPSH values of pumpsAug, p. 139	Glasscock, David A. & Hale, John C.	Jean, Randall & Boyes, Jr., Walt
Dyer, James A. & Mulholland, Kenneth	Process simulation: The art and science of model-	Look at your process non-invasively (figures, ta-
Toxic air emissions: What is the full cost to your	ling (Feature report, figures)Nov, p. 82	bles)June, p. 84
business? (figures, tables).	Gorry, Matthew, et al.	Jeff, Martin & Plant, Lysette
Feb EE Supp, p. 4	Take the guesswork out of demineralizer design	Hydrogen peroxide: A potent force to destroy or-
minimum to all supp, p. 4	(figures)Mar, p. 112	ganics in wastewater (tables, figures)
_	Green, Mildred R., et al.	Sept EE Supp, p. 16
E	Chemical-property databases for process engi-	Johnstone, David W. & Laut, Philippe B.
Francis Orașe	neering	Use nitrogen to boost plant safety and product
Epstein, Gregg	Grinthal, Wayne	quality (figures, tables)June, p. 96
Used equipment: kicking the tires (tables)	Fluid-flow software starts small to get the big pic-	
May, p. 167	tureApr, p. 157	v
	Go electronic with project management	K
F	Jan, p. 131	Kim, Irene
	Hardware and software solutions simplify acqui-	1994 salary survey: Waiting for good news
Fadopé, Cece	sition by PCs and laptopsFeb, p. 157	Dec, p. 113
New enhanced-emissions-monitoring rule re-	Grinthal, Wayne & Fouhy, Ken	Incinerators and cement kilns face off. Apr, p. 41
mains unsettled	Biology boosts waste treatmentFeb, p. 30	- CorrectionJune, p. 10
U.S. Senate's new majority may change environ-	Grinthal, Wayne, et al.	Kudos for an outstanding engineerDec, p. 96
mental agendaDec, p. 40	Surfaces: More than they seemApr, p. 35	Survey finds the CPI to have a "progressive" out-
Ferry, Robert L. & Myers, Philip E.		look on work issues
Don't get caught short on storage-tank rules (fig-	H	Kim, Irene & Litovkin, Victor
ures, tables)Feb EE Supp, p. 10		Russia defuses a toxic time bombOct, p. 32
Finn, Adrian J.	Hahn, Glenn E.	Kim, Irene, et al.
Enhance gas processing with reflux heat-ex-	Get the most out of steam (figures)Jan, p. 80	Chemical engineers ride out the storm (tables)
changersMay, p. 142 Fischer, Kerwin & King, Andrea	Hairston, Deborah	June, p. 37
	Advanced ceramics take the heatDec, p. 61	King, Andrea & Fischer, Kerwin
Tell your company story with videoApr, p. 143	Art of equipment designJune, p. 137	Tell your company story with videoApr, p. 143
- CorrectionJune, p. 10	Demystifying water treatmentSept, p. 71	- CorrectionJune, p. 10
Chow, C.K., of BOC GasesMar. p. 64	Good times for chlor-alkaliOct, p. 73	Klaber, Kathryn Z. & Weiss, Kenneth N.
, , , , , , , , , , , , , , , , , , , ,	Ion exchange resinsJune, p. 57	Gearing up for Title V operating permits (figures,
European mergers may signal shakeout	Mild-mannered surfactantsJuly, p. 65	tables)June EE Supp, p. 14
Extraordinary shakeup at Metallgesellschaft	Squeaking more performance from lubricants &	Klickman, Matthew W. & Jagiella,
Extraordinary snakeup at Metaligeselischaft	greases	Thomas C.
	The frothy market for defoamersNov, p. 67	Volatile emissions from wastewater are regu-
Industry input vital for R&D in computer-aided	Hale, John C. & Glasscock, David A.	lated, tooJune EE Supp, p. 7
process design	Process simulation: The art and science of model-	Kohley, Bill
	ling (Feature report, figures)Nov, p. 82	Consider plastic spray nozzlesApr, p. 147
Foundation of Champuton II	Hall, Stephen & Morgan, Stephen	Kohn, Philip M.
Engineers monitor trends at Chemputers II	Heat exchanger databases accelerate process de-	
Mar, p. 161	sign & costing (figures)July, p. 139	Experts criticize U.S. energy policyJuly, p. 46
Fourly, Ken & Chowdhury, Jayadev	Harding, Jeffrey S.	Kress, David
Soil cleanup: The best of all worlds?Feb, p. 33	Use contractors effectivelyNov, p. 137	Selecting the best gear driveJune, p. 121

Kuby, Thomas E. Becoming a successful consultantOct, p. 165	Japanese CPI mergers proliferate as the eco- nomic recession drags onSept, p. 48	Ondrey, Gerald & Fouhy, Ken Incineration: turning up the heat on hazardous
- CorrectionDec, p. 8	Japanese will use bioremediation to clean-up a	waste
Kumar, Ajay	Chinese mine siteAug, p. 45	Ondrey, Gerald & Moore, Stephen
Get a fix on plant pollutantsNov, p. 141	Kaneko, Takeo, of Techno-Staff CoJuly, p. 69	Gas cleaning comes out of the bag July, p. 28
	Kawasaki residents score, for now, as an 11-year	- CorrectionSept, p. 8
	suit is settled	- CorrectionSept, p. 8
L	Nev regulations prime Japan's remediation busi-	East Bloc technology: Seek innovation and ye
LaRusso, Anthony	nessFeb, p. 50	shall find itSept, p. 39
Audit your environmental contractors	Moore, Stephen & Fouhy, Ken	
Mar, p. 149	Raking money from muckJuly, p. 33	P
Laut, Philippe B. & Johnstone, David W.	Moore, Stephen & Ondrey, Gerald	<u>F</u>
Use nitrogen to boost plant safety and product	Gas cleaning comes out of the bagJuly, p. 28	Parkinson, Gerald
quality (figures, tables)June, p. 96	- CorrectionSept, p. 8 East Bloc technology: Seek innovation and ye	Chemical engineering innovation shines at Cali-
Lavis, Greg	shall find itSept, p. 39	fornia AIChE meetingDec, p. 46
Evaporators: How to make the right choice (Part	Moore, Stephen & Samdani, Gulam	Coble, Hugh, of Fluor Daniel IncMay, p. 81
1 of 2, figures)	New roles for supercritical fluidsMar, p. 32	EPA finds Mexican and U.S. environmental regu-
Leahy, Maureen C. & Brown, Richard A.	- CorrectionsMay, p. 10, Sept, p. 8	lations are "on par"Feb, p. 44
Bioremediation: optimizing results (figures)	Moore, Stephen & Shanley, Agnes	Hands-on learning: The new wave in Ch.E. edu-
May, p. 108	Vietnam comes out of isolationSept, p. 45	Marier's CPI arrest better times part year
Letki, Alan G. & DeLoggio, Theodore J.	Moore, Stephen, et al.	Mexico's CPI expect better times next year
New directions in centrifuging (tables, figures)	Miniaturization reaches the CPIOct, p. 41	Now technology takes aim at aluminum process
Jan, p. 70	Morelli, Janis A.	New technology takes aim at aluminum process- ing waste
Liley, Peter E.	Performing enviromental audits; An engineer's	Oxygenates in gasoline cut carbon monoxide
Simple equation for steam qualityAug, p. 140	guideFeb, p. 104	emissions
- PostscriptOct, p. 8 Litovkin, Victor & Kim, Irene	Morgan, Stephen & Hall, Stephen	Parkinson, Gerald & Chowdhury, Jay
Russia defuses a toxic time bombOct, p. 32	Heat exchanger databases accelerate process de-	Firmer foothold for Mexico's environmental strat-
Littlefield, David & Clark, Edward A.	sign & costing (figures)July, p. 139	egyJune, p. 44
Maximize centrifugal-pump reliability (Part 1,	Morris, Jerry & Dunn, Joe	Parkinson, Gerald & Fouhy, Ken
figures)Feb, p. 90	Networking puts new eyes on the process (fig-	Chevron and IFP demonstrate a new aromatic
Lorensen, Steve & Tedder, Daniel William	wres)May, p. 175 Mulholland, Kenneth & Dyer, James A.	separations processApr, p. 50
New correlation for heat capacities (tables, fig-	Toxic air emissions: What is the full cost to your	Parkinson, Gerald & Zanetti, Richard
ures)June, p. 106	business? (figures, tables).	Fieldbus standard: Light at the end of the tunnel?
	Feb EE Supp, p. 4	Nov, p. 44
M	Myers, Philip E. & Ferry, Robert L.	Parkinson, Gerald, et al.
IAI	Don't get caught short on storage-tank rules (fig-	Chromatographers think bigAug, p. 30
Marinelli, Joseph & Carson, John W.	ures, tables)Feb EE Supp, p. 10	CPI engineers build new connectionsNov, p. 32
Characterize bulk solids to ensure smooth flow		NOx: U.S. plants take aim at a moving target
(figures, tables)	N	Jan, p. 28
May, Donald L.	<u> </u>	- Correction
Automatic steam-load shedding cuts costs	Nelson, Christopher H. & Brown, Richard A.	Recovering metals from wastesApr, p. 30 - CorrectionJune, p. 10
Dec, p. 117	Adapting ozonation for soil and groundwater	Sulfur production continues to rise (figures)
McCracken, Philip G.	cleanupNov EE Supp, p. 18	June, p. 30
Technical audits find crucial cluesMay, p. 161	Nelson, Kenneth E.	Penney, W. Roy, et al.
McHarg, William H.	Btu accounting: showing results (Part 2 of 2, ta-	Advanced impeller geometry boosts liquid agita-
Steady state model for aerobic biological treat-	bles, figures)Oct, p. 130	tion (figures, tables)Aug, p. 110
mentMar, p. 153	Practical guide to energy accounting (Part 1 of 2,	Petersen, David G. et al.
Effective design for absorption and stripping	figures)Sept, p. 123	Capacitance redefining maintenance (figures)
(Feature report, figures)	Take pressure sensing to new levels (Feature re-	Aug, p. 76
McPherson, Lori	port)	Plant, Lysette & Jeff, Martin
Understanding Oxidation Reduction Potential	,	Hydrogen peroxide: A potent force to destroy or-
systems (figures)Mar, p. 143	•	ganics in wastewater. (tables, figures)
Mendoza, Vincente A. & Straitz III, John F.	0	Sept EE Supp, p. 16
Combat NOx with better burner design	Ondrey, Gerald	Power, Robert B.
Nov EE Supp, p. 4	de Pinho, Maria, of Instituto Superior Técnico	Pump up your energy savings (figures)
Merrow, Edward & Yarossi, Mary Ellen	Sept, p. 77	Feb, p. 120
Managing capital projects (Feature Report, Part 1	German E&C business booms outside of Ger-	- CorrectionMar, p. 10
of 2, figures)Oct, p. 108	manyMay, p. 54	
Miller, Brian D. & Barber, Terry A.	High-temperature superconductorsJan, p. 43	R
Pervaporation technology: Fundamentals and en-	Hoechst blast halts R-134a production in Frank-	
vironmental applications (Feature Report,	furt and Brazil	Rajagopal, R.
Part 2 of 3, figures)Sept, p. 88		
	Research collaborations set a new pace for Euro-	India and the environment, 10 years after
Moore, Stephen	Research collaborations set a new pace for Euro- pean R&DAug, p. 43	Bhopal
Moore, Stephen CPI restructuring hits JapanFeb, p. 50	Research collaborations set a new pace for European R&D. Aug, p. 43 Sniff out leaks. Feb, p. 39	BhopalDec, p. 39 Remer, Donald S., et al.
Moore, Stephen	Research collaborations set a new pace for Euro- pean R&DAug, p. 43	Bhopal

Richey, Preston Surving shiftworkSept, p. 149	Shelley, Suzanne & Fouhy, Ken Drive for cleaner-burning fuelJan, p. 61	V
Rodda, James R. & Bresler, Dana	- Correction	van den Burgh, Wim
Keep control valves in working order (Part 2, fig-	Shelley, Suzanne, et al.	
ures)	Titanium dioxide producers whiten their ways	Removing the uncertainty in selecting solids mix- ers (Feature report)
Rogers, James & Isom, Christopher		
Sour-gas treatment gets more flexible	- Correction May, p. 10	Vande Vrede, Linda B.
July, p. 147	Siddiqi, Abdul-Rauf	Getting along with the pressJan, p. 115
Rogers, James A. & Streiff, F.A.	As Bhopal decennial nears, environmental ac-	
Don't overlook static-mixer reactors (Feature Re-	tivism surges in IndiaNov, p. 46	W
port, Part 2 of 2, figures)June, p. 76	India and South Africa plan to build a lignite	
Ronquillo, Bernardino	gasification unitNov, p. 50	Wagschal, JoAnna J.
Greenpeace blasts waste projects in the Philip-	India moves to save the Taj Mahal, as it sets new	Do not let a crisis catch you off guard.
pines	environmental goalsSept, p. 48	Sept, p. 159
U.S. technology will help clean up Manila's Pasig	More second-hand plants will save money and	Ward, Thomas J.
RiverOct, p. 52	boost output	Which project is best? (figures, tables)
_	May, p. 54	Jan, p. 102
S	Pakistan protests an imported Danish chloralkali	Weiss, Kenneth N. & Klaber, Kathryn Z.
	plantDec, p. 48	Gearing up for Title V operating permits (figures,
Samdani, Gulam	Simmons, Vicki, et al.	tables)June EE Supp, p. 14
Software moves into air emissionsDec, p. 30	Membrane systems offer a new way to recover	Wenstrup, Robert A.
Samdani, Gulam & Moore, Stephen New roles for supercritical fluidsMar, p. 32	volatile organic air pollutants (Feature Re-	When control instruments 'talk,' performance im-
- CorrectionsMay, p. 10, Sept, p. 8	port, Part 3 of 3, tables, figures)Sept, p. 92	proves Dec , p. 80
Samdani, Gulam, et al.	Smith, Douglas, et al.	Wilson, David H.
Tiny particles aim for big marketsAug, p. 35	Incinerator risk assessments: change is in the air.	Automate bulk-solids delivery with feedback con-
Sawatzki, Howard & Brandstatter, A.L.	June EE Supp, p. 26	trol (figures)Aug, p. 87
Hot tips to rejuvenate old boilers (figures)	Sorrento, Louis	Wilson, Steve
Sept, p. 153	Proven process of carbon adsorption (Feature Re-	Being a good neighborJune, p. 119
Scarlett, Tom	port, Part 3 of 3)July, p. 94	
Superfund bill would revise chemical standards	Steinberger, Robert L.	Y
Mar, p. 50	Reengineering the capital investment process	I
Schurter, Robert V.	(Feature Report, Part 2 of 2, figures)	Yarossi, Mary Ellen & Merrow, Edward
Evaporation: Think thin film (Part 2 of 2)	Stikvoort, Walther J.	Managing capital projects (Feature Report, Part 1
Apr, p. 104	Proper interface design for pressure vessels	of 2, figures)Oct, p. 108
Shahani, Goutam H., et al.	June, p. 133	Yaws, Carl L., et al.
Intensify waste combustion with oxygen enrich-	Straitz III, John F. & Mendoza, Vincente A.	Calculate viscosities for 355 liquidsApr, p. 119
ment (figures, tables)Feb EE Supp, p. 18	Combat NOx with better burner design	, , , , , , , , , , , , , , , , , , ,
Shanley, Agnes	Nov EE Supp, p. 4	_
Deavenport, Earnest, of Eastman Chemical Co	Streiff, F.A. & Rogers, 'ames A.	Z
Labor groups accuse U.S. firms of illegally firing	Don't overlook static-mixer reactors (Feature Re-	Zanetti, Richard
Mexican workersMar, p. 52	port, Part 2 of 2, figures)June, p. 76	
Shanley, Agnes & Moore, Stephen	Sung, Harry & Chong, Peter	Growing cost of cleanup
Vietnam comes out of isolationSept, p. 45	Vacuum upgrade cuts steam & water use	Hermetically sealed pump promises zero leakage.
Shanley, Agnes, et al.	Aug, p. 143	June, p. 46
Pervaporation find its nicheSept, p. 34	Symonds, F. Peter & Dayvolt, Bradley H.	How to stay competitiveOct, p. 5
Shaw, Fred V.	Automate batching in a multi-product facility	It doesn't pay to play the oddsFeb, p. 5
Fresh options in drying (figures)July, p. 76	July, p. 151	Minority hiring: a business imperativeDec, p. 5
- PostscriptAug, p. 10		Move beyond basic regulatory process control
Shelley, Suzanne	T	Mar, p. 5
Air Pollution Compliance focuses on paperwork.	Todder Dealet William C. L.	Power of PCsJan, p. 5
Shelley, SuzanneDec, p. 91	Tedder, Daniel William & Lorensen, Steve	Salvaging SuperfundJune, p. 5
Curb off-spec resins during continuous process-	New correlation for heat capacities (tables, fig-	Solids Handling: The process industries' stepchild
Digraphy of cortification programs	ures)June, p. 106 Terhune, Keith B. & Collins, W. Michael	Apr, p. 5
Dizzying array of certification programs	Model solution for tracking pollution (figures)	Today, it's the 'soft skills' that countNov, p. 5
Get the most out of heat transfer fluids.	June EE Supp, p. 32	Treating maintenance as a processAug, p. 5
	Thielsch, Helmut & Cone, Florence M.	Zanetti, Richard & Parkinson, Gerald
Nitrogen fertilizers: looking for renewed vitality	Forestall failures by nondestructive testing.	Fieldbus standard: Light at the end of the tunnel?
Feb, p. 65	Nov, p. 112	Nov, p. 44
NOx reduction on the front burner.	Thom, James & Higgins, Thomas	Ziegler, J.G. & Connell, J.R.
Nov EE Supp, p. 3	Solvents: Know your options (Feature Report)	For optimum control: modify the process, not the
Punishing polluters: no easy task	Mar, p. 92	controls (figures, Part 1)May, p. 132
June EE Supp, p. 3	- PostscriptMay, p. 10	For optimum control: Modify your process (Part 2,
Reengineering ethylene's cold trainJan, p. 37	Tkacs, Dennis P.	figures)July, p. 107
Refinery catalysts: coping with performance anxi-	Relational databases, a bounty of information	Recirculation sheds its villainous image (figures
ety	(figures)	July, p. 118